

more direct trunk lines and loops to existing outlets are certain for the Permian Basin in 1946. However, long distance oil carriers do not appear probable.

At the end of 1945, Gulf Oil Corporation was nearing completion on approximately 450 miles of loops on its West Texas-Gulf Coast trunk carrier. Several other companies are expected to boost their West Texas outlets by new construction.

There is no doubt but what the construction of gas lines will hold the spotlight during 1946. On January 1, 1946, there were 1055 miles of gas lines under construction with 3242 miles already proposed for construction. The only holdback on proposed gas line construction during 1946 is authority from the Federal Power Commission. Many applications for gas construction are awaiting final FPC decision and results of the open hearings conducted by FPC during

the latter part of 1945 and early 1946 will have an important bearing on future gas line construction.

Major Gas Prospects

Major gas projects up for construction during 1946:

El Paso Natural Gas Company's 720 miles of 26-inch gas line from Jal, N. M., to Blythe, Calif., where it would connect with a 214-mile, 26-inch gas line from Blythe to Santa Fe Springs, proposed by Southern California Gas Company and Southern Counties Gas Company.

Standard Oil Company of California's 167 miles of 18-inch gas line from Bakersfield to Richmond, Calif.

Metropolitan Eastern Corporation's 825 miles of 18-inch natural gas line from the Carthage field, Panola County, East Texas, to Hamilton, Ohio.

Michigan-Wisconsin also proposes to construct 1216 miles of 22 and 26-inch

natural gas line from the Hugoton field, Texas and Oklahoma, to the Austin storage field in Michigan.

All of these proposals are before the FPC with no decision having been announced.

Reports say Phillips Petroleum Company plans a gas pipe line from the Guymon area, Oklahoma, to eastern industrial sections which will parallel the Rock Island railroad and will cost an estimated \$60 million.

The forecast of 5000 miles of pipe line construction during 1946 is based on the assumption that a majority of the applications before FPC will be granted and that there will be a normal flow of pipe from the steel mills. Pipe line contractors say that pipe is available for first quarter construction in 1946 but any shut down by steel mills would hamper construction during the second and third quarters.

Pipe Line Construction in 1945

Alabama

H. L. Hunt of Dallas completed a 5-mile, six-inch oil line from the Gilbertown field, Choctaw County, Alabama, to the Langsdale field, Clark County, Mississippi.

Placid Oil Company, Dallas, proposes a 12-mile eight-inch crude line from the Gilbertown field, Choctaw County, to a tank farm and barge loading terminal on the Tombigbee River.

Arkansas

Lion Oil Refining Company completed a 12-mile, six-inch oil line from the Midway field, Lafayette County, to a connection with the Interstate Pipe Line Company's trunk line near the Buckner field. Contractor: Anderson Brothers.

California

Southern California Gas Company, Southern Counties Gas Company and Pacific Lighting Corporation completed 110 miles of gas line from the Goleta gas field in Santa Barbara County to Los Angeles.

Southern California Gas Company and the Southern Counties Gas Company propose 214 miles of 26-inch gas line from Blythe to Santa Fe Springs.

Standard Oil Company of California proposes 167 miles of 18-inch natural gas line for the Pacific Power & Light Company which will run from Bakersfield to Richmond.

Standard Oil Company of California is constructing 175 miles of 18-inch oil line with a daily capacity of 90,000 barrels between Kettleman Hills and the Los Medanos tank farm near Pittsburg.

Colorado

Utah Oil Refining Company completed 151 miles of ten-inch crude line from the Rangely field to Boggs, Wyo., thence north along the right-of-way of the company's six-inch line where connection was made with Utah's eight-inch line running east and west across southern Wyoming.

Illinois

The Ohio Oil Company completed 105 miles of eight-inch products line from Robinson to Indianapolis.

Interstate Oil Pipe Line Company completed 19 miles of eight-inch oil line from the Mattoon field, Coles County, to connect with The Ohio Oil Company's line and pump station near Montrose.

Western United Gas & Electric Company completed 30½ miles of gas lines ranging in size from three to 16-inch in the Aurora area. Contractor: Midwestern Engineers.

Natural Gas Pipe Line Company of America completed two miles of 3½-inch gas line in the Chicago area. Contractor: Midwestern Engineers.

Public Service Company of Northern Illinois completed 3 miles of 4, 6, 8 and 12-inch gas mains in the Chicago area. Contractor: Midwestern Engineers.

Chicago District Pipe Line Company proposes to build 23 miles of 24-inch natural gas line paralleling two sections of its Crawford line in Will, Cook and DuPage counties.

Indiana

Panhandle Eastern Pipe Line Company laid 32 miles of 24-inch natural gas loop from a point northeast of Zionsville, to Maumee, O. Contractor: Midwestern Engineers.

Panhandle Eastern Pipe Line Company completed 4 miles of 3½-inch gas pipe line in Hancock County. Contractor: Midwestern Engineers.

Northern Indiana Public Service Company completed eight miles of 6, 10 and 12-inch gas mains near Gary. Contractor: Midwestern Engineers.

Kansas

Cities Service Gas Company completed 44 miles of 16-inch gas transmission line from Shidler to Caney. Contractor: Sharman & Allen.

Kansas-Nebraska Natural Gas Company completed a program involving construction of 172 miles of 8, 12 and 18-inch natural gas lines from the Hugoton field as outlets to Scott City, Wa-keeney, Stockton and Glade.

Kansas Power & Light Company laid 25 miles of natural gas lines varying in size from four to 16-inch from Barber County to existing lines in Pratt County. Contractor: M. E. White Construction Company and company equipment.

County Bay Oil Company completed seven miles of three-inch oil gathering lines in the Jenday pool, McPherson County.

Northern Natural Gas Company laid 19 miles of 16 and 24-inch natural gas lines in the Hugoton field. Contractor: Anderson Brothers.

Northern Natural Gas Company constructed a 16-mile loop of 24-inch line with a major river crossing near Ellsworth, Kansas. Contractor: Anderson Brothers.

Great Lakes Pipe Line Company completed 25 miles of eight-inch gas line from Paola to Kansas City. Contractor: Midwestern Engineers.

Socony Pipe Line Company proposes to build 30 miles of six-inch oil line from the Bemis Shuts field, Ellis County, to the Morefield field in Graham County.

Kentucky

Kentucky Natural Gas Corporation proposes to build 18 miles of 10½-inch natural gas line from Russellville to near Mitchellville, Tenn.

Louisiana

The Texas Company completed three miles of three-inch propane line between the company's Bateman Lake cycling plant and The Texas Pipe Line Company's pump station at Berwick. Contractor: Sharman & Allen.

Gulf Refining Company completed 6½ miles of four-inch oil line from the Bully Camp field, Lafourche Parish, to the company's barge terminal on the intercoastal canal at Larose. Contractor: Sharman & Allen.

Haynesville Operators Committee completed 110 miles of line ranging from two to 20-inch, in the Haynesville field, Claiborne and Webster parishes. The installation consisted of gathering system and tie-ins for collecting all gas in the field. Contractor: Sharman & Allen.

Memphis Natural Gas Company completed 100 miles of 18 and 20-inch gas loops from the Monroe field, Louisiana, to Memphis. Contractor: N. A. Saigh Company.

Interstate Pipe Line Company completed 120 miles of 8, 10 and 12-inch crude oil pipe line from the Mallalieu field in Mississippi to the North Baton Rouge refinery. Contractor: Sharman & Allen.

Sun Pipe Line Company gave the Delhi field, Richland Parish, an outlet by laying 17.9 miles of six-inch crude oil line from the field to a barge loading terminal at Talla Bena on the west bank of the Mississippi River. Contractor: J. R. Horrigan Construction Company.

Humble Oil & Refining Company is constructing 65 miles of 14-inch natural gas line from the Pecan Island field, Vermilion Parish, to Opelousas. Contractor: Associated Contractors & Engineers.

Arkansas Louisiana Gas Company laid 7½ miles of 20-inch natural gas line, including various water crossings, near Shreveport. Contractor: Anderson Brothers.

Interstate Natural Gas Company completed 14 miles of 4, 6 and 12-inch natural gas line near Sterlington, North Louisiana. Contractor: Associated Contractors & Engineers.

Interstate Natural Gas Company is constructing 103 miles of 8, 12 and 16-inch natural gas line from Tepete to Baton Rouge, South Louisiana. Contractor: Associated Contractors & Engineers.

Texas Pipe Line Company replaced five miles of eight-inch oil line near the Houma pump station on the company's South Louisiana system from the Paradis field to Port Arthur. Contractor: Associated Contractors and Engineers.

Massachusetts

Colonial Beacon Oil Company laid 35 miles of four and six-inch products line from Everett to Dracut. The line has a capacity of 18,000 barrels daily between Everett and Waltham, and 7000 barrels daily between Waltham and Dracut.

Pipe Line Construction in 1945

Michigan

Sohio Petroleum Company completed ten miles of four-inch line from the Wheatland area, Mecosta County, to Pure Transportation Company's terminal in the Sherman field. Constructed by the Company.

Leonard Pipe Line Company laid 15 miles of six-inch oil line from the Deep River and Adams fields in Arenac County to the company's Buckeye station. Contractor: Gentry Engineering Company.

Sohio Petroleum Company completed 42 miles of six-inch gas line from the Coldwater field, Isabella County, to Dow Chemical Company's plant at Midland.

Mississippi

Interstate Pipe Line Company laid 36 miles of six and ten-inch crude line to extend its North Baton Rouge-Mallalieu field trunk line to the Gwinville oil and condensate area in Jefferson Davis County.

Humble Oil & Refining Company laid three miles of four-inch oil line from its Hub field to a tank car terminal near Keene.

Memphis Natural Gas Company completed 50 miles of 18-inch natural gas line from Robinsonville to a point 30 miles north of Tunica. Contractor: N. A. Saigh Company.

Missouri

Texas-Empire Pipe Line Company completed 164 miles of 12-inch oil line between Shelton and Heyworth, Ill. The new line will increase to 110,000 barrels daily capacity the amount of oil moved in the area and will complete a double 12-inch line operated by Texas-Empire which moves crude from Oklahoma, Kansas and Texas.

Montana

A. B. Cobb & Company completed 90 miles of five-inch oil line from the Cut Bank field to a loading rack at Conrad.

New Mexico

Valley Refining Company laid 31 miles of four-inch oil line from the Cap Rock field, centering upon the Lea-Chaves County line, to the Dexter station on its Square Lake-Roswell carrier.

El Paso Natural Gas Company constructed 31½ miles of 16-inch relay natural gas line from its Eunice district compressor station, Lea County, southeast to its Jal natural gasoline plant and booster station.

Artesia Pipe Line Company laid five miles of two and three-inch crude line from the Red Lake field, Eddy County, to Midway Station on the New Mexico Pipe Line Company's trunk line.

Southern Union Gas Company installed an eight-mile, eight-inch loop, paralleling a five-inch system that delivers Lea County gas to its Artesia distribution system.

Southern Union Gas Company laid five miles of six-inch natural gas loop, parallel to a four-inch carrier leading into Carlsbad. Contractor: J. D. Walton.

Texas-New Mexico Pipe Line Company installed a mile of eight-inch oil line from its Jal Station to the Dollar Hide field, Andrews County, Texas.

Humble Pipe Line Company completed a combination crude oil line, involving three miles of four-inch and 2½ miles of two-inch welded pipe from the Dublin-Ellengerger pool, Lea County, to its Hobbs-Wink trunk line.

El Paso Natural Gas Company proposes to build a 720-mile 26-inch natural gas transmission line from Jal, Southeastern New Mexico, thence west and parallel to its existing system that serves El Paso and outlying points, to Blythe, Cal., where connection would be made with California distributing companies. Initial feeder lines will aggregate 117 miles of 24-inch; 32 miles of 18-inch and 15 miles of 14-inch lines in reaching supplemental gas supplies in the Texas Panhandle and the Keystone, TXL, Fullerton and Seminole fields, West Texas.

Oklahoma

Cities Service Gas Company completed 35 miles of 16-inch gas transmission line between Blackwell and Shidler. This section ties into the 16-inch line laid by the same company between Shidler and Caney, Kansas. Contractor: Oil States Construction Company.

Bell Oil & Gas Company has completed 35 miles of oil line and gathering system from the Aylesworth and Mead areas in Marshall County, to the Ben Franklin refinery at Ardmore. Contractor: Basin Construction Company.

Skelly Oil Company completed 47 miles of natural gas lines ranging from four to 22 inches as a gathering system in the Guymon area of the Hugoton gas field. Contractor: J. E. Carlson & Son.

Cities Service Gas Company laid nine miles of 12 and 16-inch natural gas line in the Nowata area, including a crossing of the Verdigris River at Lenapah. Contractor: Midwestern Engineers.

Sohio Petroleum Company completed 12 miles of four and six-inch oil line from the Arcadia pool, Oklahoma County, to a point between Oklahoma City and Drumright.

Phillips Petroleum Company completed 78 miles of oil lines ranging in size from two to 24-inch in the West Edmond field to connect with lines in the old Edmond and Oklahoma City pools. Contractor: Harry Liles, Oklahoma City.

Standish Pipe Line Company completed 15 miles of eight-inch oil line from the West Edmond pool to Oklahoma City. Contractors: Western States Construction Company, and Harry Liles.

Shell Pipe Line Corporation reworked two 52-mile, six-inch crude lines from Tonkawa to Cushing. Contractor: O. R. Smith Construction Company.

Great Lakes Pipe Line Company is constructing 800 miles of eight-inch natural gas line from Barnsdall to Sioux Falls, S. D. The line will go from Barnsdall to Kansas City, thence to Omaha, Neb., Sioux City, Ia., and on to Sioux Falls. Contractors: O. E. Dempsey Construction Company, Oklahoma Contracting Company, Midwestern Engineers, Williams Brothers, and C. W. Sternberg.

Empire Pipe Line Company completed five miles of four-inch oil line from the Coates-Cimarron eight-inch line to the Evansville field, near Guthrie.

Mid-Continent Pipe Line Company completed eight miles of six-inch oil line as a loop in its discharge line from its Harris Station in the Moore area of Cleveland County, to Oklahoma City. Contractor: Holland Construction Company, Tulsa.

Standish Pipe Line Company completed seven miles of six-inch oil line from Bethany Station, Oklahoma County, to loop into the jointly-owned Standish and Sohio Western's West Edmond-Oklahoma City line. Contractor: Western States Construction Company.

Michigan-Wisconsin Pipe Line Company proposes to build 1216 miles of 22 and 26-inch natural gas line from the Hugoton field to the Austin Storage field, Michigan.

Ohio

Ohio Fuel Gas Company completed 18½ miles of six-inch natural gas line from Urbana to Bellefontaine.

Pennsylvania

United Natural Gas Company is constructing approximately 6½ miles of eight-inch natural gas lines from its Heath Station, Jefferson County, existing six-inch lines near Spring Creek and Millstone. Contractor: Anderson Brothers.

Socony-Vacuum Oil Company proposes to construct about 100 miles of oil line ranging in size from four to 14 inches in the Mid-dletown, Malone and Westchester areas.

East Texas

Lone Star Gas Company completed a 21½ mile gathering system in the Buffalo field, Leon County. The line consists of ¼ mile of 2-inch, 3 miles of 4-inch, 2 miles of 6-inch, and 16 miles of 8-inch and a crossing of the Trinity River. Contractor: Anderson Brothers.

Gulf Refining Company placed into operation an eight-mile four-inch oil line from the Pickton field, Hopkins County, to Gulf's Mid-Continent-Port Arthur system near Winnsboro. Contractor: Sharman & Allen.

Empire Pipe Line Company added 4½ miles of four-inch line to its gathering system in the Longview sector of the East Texas field.

United Gas Company installed 45 miles of six to twenty-inch natural gas gathering lines in the Carthage field, Panola County.

Tom G. Shaw completed 5½ miles of two-inch oil line from the Lone Star pool, Cherokee County, to the Pleasant Grove area where connection was made with the Texas Pipe Line Company's East Texas trunk line system.

United Gas Pipe Line Company completed 143 miles of 24-inch natural gas line from the Carthage gas field to Monroe, La.

Merriman Oil Company constructed three miles of three-inch oil line from the Larue field, Henderson County, to the Ash Switch loading rack.

Humble Pipe Line Company completed six miles of six-inch oil line extending from the Sand Flat field, Smith County, to connect with Humble's Hawkins-Longview 10-inch carrier. Contractor: Wood Engineering and Construction Company.

Arkansas-Louisiana Gas Company laid 18½ miles of 4, 6 and 8-inch pipe as part of a gathering system in the Carthage field, Panola County. Contractor: Anderson Brothers.

Arkansas-Louisiana Gas Company completed 18 miles of eight-inch natural gas line from the Whelan field, Harrison County, to Daingerfield. Contractor: Anderson Brothers.

Lone Star Gas Company is constructing 80 miles of 14-inch natural gas trunk line from the Carthage field, Panola County, to Opelika field, Henderson County, where connection will be made with its Central and North Texas system. Contractor: Tom R. Jones, Dallas.

Metropolitan Eastern Corporation proposes to build 825 miles of 18-inch natural gas line from the Carthage field, Panola County, to Hamilton, Ohio.

Texas Gulf Coast

United Carbon Company completed 19 miles of eight-inch gas line from the LaRoca field, near Woodsboro, to United's carbon plant near Aransas Pass. Contractor: C. W. Sternberg.

Humble Oil & Refining Company completed 81 miles of four-inch gas line from the cycling plant at Katy to the Dow Chemical Company plant at Freeport. Contractor: Sharman & Allen.

Danciger Oil & Refineries, Inc. completed a 15-mile, six-inch natural gas line, consisting of a lateral from Newgulf, Texas, to Jefferson Lake Sulphur Company's Long Point plant.

The Texas-New Mexico Pipe Line Company completed five loops totaling 30.2 miles in its Houston-Crane 12-inch oil line. Contractor: Midwestern Engineers.

Sinclair Refining Company completed three miles of three-inch lateral off its Corpus Christi-Houston trunk line to the El Campo pool, Wharton County. Contractor: O. C. Whitaker Company.

Empire Pipe Line Company completed eight miles of six-inch line as extension from its Sour Lake station to Grayburg station, near Beaumont, on Magnolia Pipe Line Company's system.

American Petroleum Company installed 15 miles of six-inch oil line from the Silsbee field to the Arriola field in Hardin County. Contractor: Associated Contractors and Engineers.

Glenn H. McCarthy laid 28 miles of ten-inch gas line from the Winnie-Stowell field to Beaumont to connect with McCarthy's West Beaumont-Port Arthur system. Contractor: J. R. Horrigan Construction Company.

Glenn H. McCarthy installed 55 miles of gathering lines in the Winnie, Stowell, Fannett and Fig Ridge fields on the Texas Gulf Coast.

Standard Oil Company of Texas is constructing 11 miles of six-inch oil line from the Mainland to the Smith Point field in Galveston Bay. About 9½ miles of the line is under water.

American Petroleum Company installed six miles of four-inch oil gathering lines in the Silsbee field, Hardin County. Contractor: Sharman & Allen.

Pipe Line Construction in 1945

Humble Oil & Refining Company completed 16 miles of five and seven-inch oil line from the Dickinson field, Galveston County, to the Hall's Bayou field, Brazoria County. Contractor: Associated Contractors & Engineers.

Glenn H. McCarthy laid 43 miles of ten and 12-inch natural gas line from the Winnie field, Chambers County, to the DuPont plant at Orange. Contractor: J. R. Horrigan Construction Company.

The Texas Pipe Line Company laid 20 miles of four and six-inch pipe to provide outlets for the Blue Lake field, Brazoria County, and the Lane City field, Wharton County.

Empire Pipe Line Company is constructing 65 miles of 12-inch oil line from Sour Lake to the Cities Service Refinery Corporation's plant at Lake Charles, La.

Warren Petroleum Corporation is constructing 82 miles of eight-inch products line from the Lake Creek field, Harris County, to the Houston Ship Channel. Contractor: Associated Contractors and Engineers.

Humble Oil & Refining Company proposes to build 275 miles of six-inch products lines from its Baytown refinery to a point between Fort Worth and Dallas.

Pan American Pipe Line Company and **Pan American Gas Company** completed four miles of four-inch gas and distillate lines in the Chocolate Bayou field, Brazoria County.

West Texas

Shell Pipe Line Corporation built nine miles of six-inch oil line from its Wheeler field station, Winkler County, to the TXL field, Ector County. Contractor: McVean and Roberts.

Shell Pipe Line Corporation built 27 miles of eight-inch oil line from the TXL field, Ector County, parallel to six-inch, via Wheeler and Monahans fields to connect with its Wink-McCamey multi-unit system. Contractor: Anderson Brothers.

Shell Pipe Line Corporation built 9.7 miles of six-inch oil line from a point on its Wink-McCamey multi-unit system in South Central Crane County to Crane station of The Texas New Mexico Pipe Line Company. This involves movement of sweet crude. Contractor: O. R. Smith Construction Company.

Shell Pipe Line Corporation has under construction a 23-mile, eight-inch crude oil line from its Wheeler field station, Winkler County, to the Bedford one-well multi-pay field, Andrews County. Contractor: Anderson Brothers.

Helmerich & Payne, Inc., Cardinal division, completed 11 miles of six-inch natural gas line from the MacDer field, Pecos County, to the West Texas Utilities Company's electric power plant near Girvin, Texas. Contractor: McVean and Roberts.

Bryce C. McCandless built five miles of three-inch natural gas line from his Owego pool discovery, Pecos County, to connect with Helmerich & Payne, Inc., Cardinal division's carrier.

Magnolia Pipe Line Company installed eight miles of eight-inch loop, parallel to four and six-inch lines on the discharge end of its Fullerton-Union field-Andrews station, Andrews County, boosting capacity to 35,000 barrels daily.

Ralph Lowe, Midland producer, completed five miles of four-inch crude line, with five miles of four-inch gathering system, in connecting the Welch field, Dawson County, to The Texas-New Mexico Pipe Line Company's Slaughter-Midland trunk line. Contractor: Morrison Construction Company.

Texas Gulf Producing Company installed three miles of four-inch oil line from its Dean field northwest extension to connect with the Magnolia Pipe Line Company's system in the Dean field, Cochran County.

Empire Southern Gas Company completed 41 miles of 8½-inch welded natural gas line from the Shafter Lake field, Andrews County, thence east to Martin County, where connection was made with its 30-mile, eight-inch line to Big Spring. The new unit enables the company to supplement Panhandle gas purchased from the West Texas Gas Company. Shafter Lake field gathering system required ten miles of 2-inch line. Contractor: H. C. Price Company.

The Texas New Mexico Pipe Line Company built two miles of four-inch crude line from the Block 31 field, Crane County, to its Wink-Crane system. This temporary unit will be replaced by six miles of six-inch, or larger, line to extend from field direct to Crane station to permit segregation of the sweet crude.

The Texas New Mexico Pipe Line Company completed in mid-March the installation of seven loops, aggregating 30 miles of 12-inch on its Crane-Houston 12-inch carrier, boosting the capacity to 65,000 to 70,000 barrels daily, depending upon grades of oil handled. Contractor: Midwestern Engineers.

The Texas New Mexico Pipe Line Company proposes to materially increase the capacity of its New Mexico-West Texas to Houston trunk line system during 1946, with special consideration to be given the segregation of sweet crude.

Stanolind Pipe Line Company laid eight miles of four-inch crude oil line from its Henderson field, Winkler County, station to connect with the Eaves field, centering upon the Texas-New Mexico border.

Cabot Carbon Company completed 13 miles of 20-inch natural gas lines from the Halleys field, Winkler County, to its natural gasoline and carbon black plants between the Kermit and Key stone fields.

Gulf Refining Company laid 62 miles of eight-inch sweet crude line from the Keystone field, Winkler County, to its Midland terminal. Contractor: Sharman & Allen.

Humble Pipe Line Company stepped up the capacity of its outlet in the Sand Hills field, Crane County, from 8500 to 11,000 barrels daily by installing 3.3 miles of four-inch loop.

Humble Pipe Line Company completed four miles of four-inch oil line extending from its Fuhrman-Mascho field system, Andrews County, to serve the Martin two-pay field.

Gulf Refining Company is constructing 450 miles of loops to facilitate the movement of sweet crude from the Keystone and other West Texas fields to its refinery at Port Arthur. The loops include 8, 10 and 12-inch pipe. The project, costing \$8 million, will

increase the company's Permian Basin outlet to 115,000 barrels daily. Contractors: J. R. Horrigan Construction Company, Oklahoma Construction Company, and Associated Contractors and Engineers.

Texas-New Mexico Pipe Line Company is constructing 34 miles of six-inch oil line from its Abell field station to the Fort Stockton field, Pecos County. Contractor: Fredell Construction Company.

The Atlantic Pipe Line Company built one mile of eight-inch lateral from its Wink-Midland ten-inch carrier to connect with Shell Pipe Line Corporation's Wheeler field, Winkler County, tankage and run 1500 barrels daily of Ellenburger sweet crude purchased on contract.

Columbia Carbon Company completed 14 miles of 20-inch natural gas line from Phillips Petroleum Company's natural gasoline plant in the Seminole field, Gaines County, to its carbon black plant near Seagraves.

Scurlock Oil Company completed two miles of three-inch, parallel to the old two-inch crude line from the Garza (Post) field, Garza County, to tank car rack at Post, making deliveries to Canadian refineries.

Southwest Texas

Sun Pipe Line Company completed 15 miles of eight-inch gathering line from Fremont to Sullivan City, Starr County. Contractor: Allied Welding and Engineering Company.

Houston Natural Gas Corporation completed 38 miles of eight and 12½-inch natural gas line from the Alice field, Jim Wells County, to Corpus Christi, at a cost of \$750,000. Contractor: J. W. France Company, Inc.

Houston Natural Gas Corporation installed six miles of six-inch natural gas pipe from the Driscoll field to Kingsville. Contractor: Sheppard Construction Company.

Sinclair Refining Company laid five miles of eight-inch oil line across Nueces Bay, from Taft to Sinclair's pump station at Corpus Christi. Contractor: Whitaker Contracting Company.

South Texas Pipe Line Company completed 17 miles of six-inch oil line from Donna to LaBlanc.

Sun Pipe Line Company is constructing 84 miles of ten-inch oil line from the Seeligson area to Aransas Pass. Contractor: J. R. Horrigan Construction Company.

Humble Pipe Line Company laid 20 miles of six-inch oil line from the Imogene field to the new Charlotte field. Contractor: C. W. Sternberg.

Tennessee Gas & Transmission Company proposes to build 95 miles of 16-inch natural gas line from the San Salvador field, Hidalgo County, to its main transmission line in Nueces County.

Pan American Pipe Line Company completed five miles of oil gathering lines in the Willamar field, Willacy County.

North Texas

Sinclair Refining Company completed 3½-miles of two-inch line from Cherryholmes field, Jack County, to its Hensley station.

Sinclair Refining Company completed 14 miles of six-inch oil line as an outlet for the Sivils Bend field, Cooke County, and 3½ miles of two to six-inch gathering lines. Contractor: O. C. Whitaker Company.

Stanolind Pipe Line Company completed four miles of three and four-inch oil line as a gathering system in the Hildreth field, Montague County, and extension from its Heard pump station near the Stoneburg pool.

Humble Pipe Line Company installed four miles of four-inch oil line to give the Ross field, King County, an outlet.

Stanolind Pipe Line Company provided an outlet for the Risch and Joplin pools, Jack County, by laying nine miles of four-inch oil line to its Jacksboro Junction station on its Gulf Coast-Chicago trunk line. Company connected to the Borden pool, Jack County, with a 3000-foot four-inch lateral from its trunk line.

Bell-Western Corporation built five miles 4½-inch crude line extension from its Fargo field station to the Odell field, Wilbarger County.

West Central Texas

Onyx Refining Company extended its Jones-Taylor County system in building six miles of six-inch to point near Merkel on Magnolia Pipe Line Company's Midland-Corsicana sweet crude line for delivery of 5000 barrels of oil daily on contract.

Texas Panhandle

Phillips Petroleum Company built ten miles of ten-inch natural gas line from the Cities Service Oil Company's gas holdings in Sherman County to the Cactus Ordnance Plant in Northern Moore County.

Utah

Utah Oil Refining Company laid 24 miles of eight-inch crude oil line from Uinta Junction near Ogden, Utah, south to Salt Lake City. Contractor: Anderson Brothers.

Wyoming

Sinclair Refining Company laid 36.8-miles of eight-inch crude oil line from its new discovery at Sand Draw, Wyoming, to its pump station at Crooks Gap, Wyoming. Contractor: O. C. Whitaker Company.

Sinclair Wyoming Oil Company completed 23 miles of 8-inch oil line from its Lost Soldier pump station to the new Crooks Gap pool in Fremont County, Wyoming.

Stanolind Pipe Line Company completed 32 miles of 12-inch cut-off line between Casper and Welch in the Elk Basin area.

Continental Oil Company completed 10 miles of three and four-inch oil line from the Lance Creek field, Niobrara County, to a truck loading rack between Lusk and Newcastle.

Toronto Pipe Line Company proposes to build 40 miles of 6-inch crude oil line from the Steamboat Butte field, Fremont County, to the railroad at Shoshone.

Stanolind Pipe Line Company completed 68 miles of 8-inch oil line from the Circle Ridge field to the Elk Basin-Casper line.

under construction or authorized at the end of 1946 was for natural gas. These lines will nearly double the amount of gas moved from the southwest to the rich industrial markets of Eastern and Great Lakes areas. There were 4771 miles of gas lines under construction or authorized by the Federal Power Commission, or more than double the mileage of products and crude lines under construction or authorized. There were 2638 miles of products line and 2099 miles of crude line under construction or authorized by companies.

Big Gas Program

The gas line projects under construction are large. Some of the larger ones follow:

A 951-mile 26 and 30-inch line from Eunice, N. M., to the Los Angeles area. The New Mexico-to-California border portion of this line is being built by El Paso Natural Gas Company and the California section is being constructed by Southern California Gas Company and Southern Counties Gas Company. In addition, El Paso Natural is building more than 100 miles of gas lines from the Eunice terminal to outlying fields where gas will be gathered, and in 1948 will extend the main Eunice-California line to Dumas, Texas, Panhandle, with a 251-mile 24-inch transmission line.

Tennessee Gas and Transmission Company is building 505 miles of loop and extension to its Texas-West Virginia gas transmission system. The company also has application filed with FPC for authority to build 832 miles of 20 to 26-inch loop to this line that supplies a rich market in the Appalachian area.

Mississippi River Fuel Corporation has started construction of 279 miles of 12 and 22-inch loop on its Louisiana-Illinois line.

Northern Natural Gas Company is adding approximately 250 miles of 18 to 24-inch loop to its Texas-Minnesota system. And the company has application filed with FPC to make further major additions to this line.

Panhandle Eastern Pipe Line Company is building 465 miles of 18 to 26-inch loop to its Texas-Michigan system.

Michigan-Wisconsin Pipe Line Company has been authorized by FPC to build a 1069-mile 22 to 26-inch natural gas transmission line from the Texas Panhandle to Michigan. This is the largest of authorized postwar pipe line construction jobs, with work expected to commence this year and completion not expected before early 1949.

Construction of natural gas carrier

systems should continue at a high rate for several years.

In addition to these major gas line projects, applications were before the FPC at the end of year for a total of 4780 miles of additional new gas lines. Included here are several large new projects: A 1380-mile 26-inch natural gas line from East Texas to the Atlantic Seaboard in the vicinity of New York and New Jersey by Trans-Continental Pipe Line Company; a 1236-mile 26-inch natural gas transmission line by Mid-Continent Gas and Transmission Company from the Hugoton field in Kansas to St. Paul, Minn., by way of Kansas City; a 405-mile 26-inch line from the Hugoton field in Kansas to Kansas City, Mo., by Cities Service Gas Company, and a 260-mile natural gas line from the Hugoton field to Denver by Colorado Interstate Gas Company.

Only unfavorable action by the FPC can retard an extensive expansion of the nation's natural gas pipe line system during the next several years.

More Products Lines

Construction on products pipe lines was very much in evidence as 1946 ended. Great Lakes Pipe Line Company completed 600 miles of 8-inch products line from Drumright, Okla., to Sioux Falls, S. D. A 500-mile extension of this line from Sioux Falls to Grand Forks, N. D., via several Minnesota communities, was nearing completion at the year's end.

Standard Oil Company (Indiana) is nearing completion a 662-mile 8 and 10-inch products line from Whiting, Ind., to Moorhead, Minn., by way of Minneapolis and St. Paul.

Phillips Petroleum Company and Shamrock Oil & Gas Company are jointly building a 360-mile 6½-inch products line from their refineries in the Texas Panhandle to Denver.

The Texas Pipe Line Company and Magnolia Pipe Line Company are jointly building a 449-mile 8 to 12-inch products line in Texas, running from near Beaumont to Dallas and Fort Worth, with a branch from the main line at Hearne running through Austin to San Marcos where it connects with an existing line that will carry petroleum products to the San Antonio area.

Sinclair Refining Company is building 399 miles of 6-inch products line in Ohio and part of Michigan. The lines extend from Sinclair's present East Chicago-Toledo line to Detroit, and from Toledo to Columbus, Cleveland, Marion, Akron, and Youngstown, Ohio, connecting at the latter point with Sinclair's existing Marcus Hook-Steubenville products line.

There were 2099 miles of crude pipe line construction under way or authorized as 1946 ended. Largest authorized was the 650-mile 20-inch crude line by Magnolia Pipe Line Company to move crude from its terminal at Corsicana, Texas, to Patoka, Ill. At Patoka the line will connect with existing Magnolia pipe line facilities and will furnish crude for several Socony-Vacuum refineries in the Great Lakes area.

Stanolind Pipe Line Company is looping with 20-inch its present system from Drumright, Okla., to Whiting, Ind. This will eventually give the company a new 632-mile 20-inch system between these two points.

Standish Pipe Line Company has authorized a 289-mile 12-inch crude line outlet from the Permian Basin sector to its refinery at Borger, Texas Panhandle, with the possibility of extending this line from Borger to tie in with existing company facilities near Oklahoma City.

At the end of 1946 there were 2076 miles of crude lines known to be under study. The Texas Pipe Line Company was studying the possibility of building, with other interests (which probably means Texas-New Mexico Pipe Line Company or Texas-Empire Pipe Line System) a 440-mile 20-inch crude oil outlet from the Permian Basin sector to Cushing, Okla. The Texas Pipe Line Company scrapped a contemplated 572-mile 16-inch crude line from West Texas to Port Arthur to be built by Texas-New Mexico Pipe Line Company, in favor of the West Texas-to-Cushing line.

Phoenix Pipe Line Company, newly organized by Phoenix and Kansas City interests, was talking about a 600-mile crude line from the Permian Basin sector to Phoenix, Ariz. Although there is no refinery located at Phoenix, the same interests also were studying plans to build one to utilize crude moved via the Phoenix Pipe Line Company.

Rangely Outlet

Standard Oil Company (Indiana) contemplates building another outlet from the Rangely field, northwestern Colorado, to Wamsutter, Wyo., and on to Casper. The one existing pipe-line outlet from Rangely is too small for present field production and every time a producer is completed, the allowable take from all other wells is reduced.

Midway Pipe Line Company, to be sponsored by Middle West cooperative refiners, is studying the possibility of building approximately 625 miles of 12 to 16-inch crude line from the Permian Basin sector of West Texas and New Mexico to Valley Center, Kan.

Pipe Line Construction in 1946

Alabama

Phid Oil Company, Dallas, completed an 11-mile, 8-inch crude line from the Gilbertown field, Choctaw County, to a tank farm and barge loading terminal on the Tombigbee River.

Arizona

Phoenix Pipe Line Company, newly organized by Phoenix and Kansas City interests, proposes to build a 600-mile, 8-inch crude trunk line from the Permian Basin sector of New Mexico and West Texas to a proposed refinery at Phoenix. Arizona is one of the few states without a refinery or production, present stocks being moved to the state by railway tank cars and trucks.

Arkansas

Arkansas Louisiana Gas Company is building 21 miles of 12½-inch and 4½ miles of 8½-inch natural gas lines as additions to its "L System" that supplies gas to four industrial concerns in Arkansas. **Root Refining Company** completed a 19-mile, 4-inch crude line from Wesson field, Ouachita County, to Junction Point on its Shuler El Dorado 6-inch carrier.

California

Southern California Gas Company and **Southern Counties Gas Company** are building a 214-mile, 30-inch natural gas transmission line from Blythe to Santa Fe Springs. This line will connect with El Paso Natural Gas Company's West Texas-California 26-inch line, now

Pipe Line Construction in 1946

Southern California Gas Company is building a 20½-mile natural gas line between the northern end of the Trico gas field, Kern County, and the 16-inch PG&E Buttonwillow carrier. The new line, third connection into this field, consists of 10-, 8-, 6-, and 4-inch pipe.

Pacific Pipeline Company is building for **Pacific Public Service Company** a natural gas line from the Suisun Bay, Kirby Hill and West Rio Vista gas fields to the Stanpac junction near Pittsburg. The line is made up of 4- to 12-inch pipe with an aggregate length, including all spur lines, of 35 miles.

Standard Oil Company of California completed a 176-mile, 18-inch crude line from Kettleman Hills to the company's Los Medanos tank farm near Pittsburg.

Colorado

Colorado Interstate Gas Company proposes to build a natural gas line from the Hugoton gas field in Kansas to Denver.

Standard Oil Company (Indiana) proposes to build a 12-inch crude outlet from Rangely field to Wamsutter, Wyo., paralleling Utah Oil Refining Company's (Standard of Indiana subsidiary) existing 10-inch line, and a 10-inch extension from Wamsutter to Casper, Wyo.

Phillips Petroleum Company and **Shamrock Oil & Gas Company** are building a 360-mile, 6½-inch products line from Phillips' refinery at Phillips, Texas, connecting with Shamrock's refinery at McKee, Texas, to LeJunta and Denver.

Illinois

Chicago District Pipe Line Company completed 23 miles of 24-inch natural gas line between Joliet and Chicago.

Chicago District Pipe Line Company completed 11.6 miles of 24-inch natural gas line paralleling the Crawford line.

North Shore Gas Company, Waukegan, completed 6 miles of 12½-inch and 2 miles of 10½-inch distribution lines in Lake County.

Panhandle Eastern Pipe Line Company completed 24 miles of 26-inch natural gas line near its compressor station at Tuscola.

Wood River Oil and Refining Company, Inc., Wichita, Kansas, completed a 70 mile, 8-inch products pipe line from its new marine terminal at Peru to Rockford.

Indiana

Kentucky Natural Gas Corporation completed 30 miles of 6-inch natural gas line from Panhandle Eastern Pipe Line Company's system near Danville to Martinsville.

Eastern Indiana Gas Company completed a 23-mile, 3-inch natural gas line near Muncie.

Standard Oil Company (Indiana) is completing a 662-mile combination 10 and 8-inch products pipe line from Whiting to Moorehead, Minn., via Minneapolis and St. Paul.

Kansas

Cities Service Gas Company proposes to build a 405-mile, 26-inch natural gas transmission line from the Hugoton gas field to Wichita and Kansas City.

Mid-Continent Gas Transmission Company proposes to build 1236 miles of 26-inch natural gas transmission line from Liberal to Kansas City and St. Paul, Minn. The line from Liberal to Kansas City would be a 400-mile double pipe line and the line from Kansas City to St. Paul would be a single 436-mile string.

Kansas-Nebraska Natural Gas Company is building 56 miles of 16-inch and 21 miles of 12½-inch natural gas line from Phillipsburg to Hastings, Neb. The company is also constructing approximately 100 miles of lateral pipe lines to serve Nebraska communities.

Sinclair Refining Company, pipe line department, is building a 50 mile, 18-inch loop in the vicinity of Iola.

Kentucky

Cincinnati Gas Transportation Company completed 70 miles of 14-inch natural gas line from its main line near Foster to an interconnection with Tennessee Gas and Transmission Company near Means.

Louisiana

Mississippi River Fuel Corporation is building 265 miles of 22-inch loop and 14 miles of 12-inch loop to increase the capacity of its Louisiana-Illinois natural gas transmission line.

United Gas Pipe Line Company is building a 24-mile, 12-inch natural gas transmission line from Barataria, Delta Farms, Bayou Perot and Stella fields to New Orleans. Previously flared gas will be utilized by this line.

United Gas Pipe Line Company is building 17 miles of 12½-inch natural gas transmission line from a dehydration plant in Hayes field to the Iowa compressor station; 10 miles of 12½-inch from Baxterville field to Bogalusa transmission line, Mississippi, and completed 14 miles of 10½-inch from a dehydration plant in Gwinville field to the Benton Junction-Mobile main line, Mississippi.

Humble Oil & Refining Company completed a 10-mile, 4- and 6-inch natural gas line from North Crowley field to its 14-inch Pecan Island-Opelousas main carrier.

Humble Oil & Refining Company completed a 65-mile, 14-inch natural gas transmission line from Pecan Island field to Opelousas.

Interstate Oil Pipe Line Company completed a 35.5-mile, 8-inch crude line from the Holley Ridge field station, Mississippi, to Delhi field, Louisiana.

Interstate Natural Gas Company completed 103 miles of 8-, 12- and 16-inch natural gas line from Tepete to Baton Rouge.

Magnolia Pipe Line Company completed 14 miles of 4-, 5- and 6-inch crude line in the Lake Arthur area.

Southern Natural Gas Company completed 116 miles of 6½-inch to 22-inch natural gas loop on its Louisiana, Mississippi, Alabama and Georgia line.

Michigan

E. V. Hilliard proposes to build 26 miles of 6-inch natural gas transmission line from Roscommon gas field to Wise Junction on Dow Chemical Company's Evert to Midland gas transmission line.

Consumers Power Company and **Panhandle Eastern Pipe Line Company** are building 150 miles of 24-inch natural gas line from Panhandle's present Michigan terminal at Chelsea to the Winterfield and Cranberry Lake shallow gas fields for storage.

Michigan Consolidated Gas Company completed 30 miles of 8-inch natural gas transmission line from Lincoln-Freeman field to Austin storage field, replacing an old 4-inch line.

Panhandle Eastern Pipe Line Company is building 70 miles of 16-inch line from Allen Park to Union Gas Company of Canada's lines across the Detroit River.

Mississippi

United Gas Pipe Line Company proposes to build a gathering system in the Baxterville field and a 12-mile, 12-inch natural gas line from the field west to connect with the company's present system.

Southern Natural Gas Company is building 80 miles of 16-inch natural gas transmission line from Gwinville field to Pickens.

United Gas Pipe Line Company is building 86 miles of 6-inch natural gas line from the Jackson compressor station to Philadelphia Neshoba County.

Gulf Refining Company completed a 12-mile, 14-inch crude line from Baxterville field to a loading rack at Lumberton.

Interstate Oil Pipe Line Company completed 10½ miles of 6-inch crude line from the Brookhaven field to the Mallieu field station.

Interstate Oil Pipe Line Company completed 10½ miles of 8-inch crude line from the Ecuelle field, Wayne County, and its loading rack that serves the Heldenberg field, Jasper County.

Interstate Oil Pipe Line Company completed 12 miles of 6-inch and 4 miles of 4-inch crude line from the Fayette field, Jefferson County, to its booster station at Cranfield field.

Sohio Petroleum Company completed a 40-mile, 8-inch line from Tinsley field, Yazoo County, to a terminal on the Mississippi River at Mayersville.

United Gas Pipe Line Company completed a 10- and 12-inch natural gas line from the Gwinville field to its Jackson-Mobile transmission line.

Montana

Montana-Dakota Utilities Company will build 28½ miles of 10½-inch natural gas line in Valley County.

New Mexico

Midway Pipe Line Company, to be sponsored by middle west cooperative and independent refiners, proposes to build approximately 625 miles of 12- to 16-inch crude trunk line from Southeastern New Mexico and West Texas field via Wichita Falls to Valley Center, Kansas, where the line will connect with existing distribution lines.

El Paso Natural Gas Company is building a 737-mile, 26-inch natural gas transmission line from its Permian Basin terminal, near Eunice to Blythe, Calif., where it connects with a California line now being constructed. El Paso Natural will extend this line in 1948 from Eunice terminal to Dumas, Moore County sector of the Texas Panhandle, with a 251-mile, 24-inch natural gas line.

El Paso Natural Gas Company is building a 31-mile, 14-inch feeder from Jal Station west to the Pecos River where it will intercept the Eunice-Blythe 26-inch carrier. The company is also building a 31 mile, 16-inch feeder line extension from Jal Station to Keystone and TXL fields, West Texas.

El Paso Natural Gas Company is building a 31 mile, 14-inch feeder line extension from the Eunice terminal to Fullerton field, Andrews County, West Texas.

Magnolia Pipe Line Company completed 11½ miles of 4-inch crude gathering line in the Brunson, Drinkard and Paddock fields to a tank farm near Eunice.

Southern Union Gas Company completed 22 miles of 8-inch natural gas extension line from its 8-inch trunk line near Santa Fe to the Los Alamos atomic bomb project; 10 miles of 10-inch loop parallel to its 8-inch trunk line from Barker Creek Dome to Santa Fe, and 4 miles of 4-inch loop on its gas trunk line from Carlshad to Potash Center.

Ohio

East Ohio Gas Company completed 144 miles of 18- and 20-inch natural gas line from Pipe Creek, Hope Natural Gas Company's terminal on the Ohio River, to Cleveland.

Ohio Fuel Gas Company completed 19 miles of natural gas gathering lines in Lorain and Medina counties and 25 miles of 16-inch line connecting stations.

Sinclair Refining Company is building 56 miles of 6-inch products line from Toledo to Detroit, 118 miles of 6-inch products line from Toledo to Columbus through Marion, and 225 miles of 6-inch products line from Marion to Cleveland, Akron and Youngstown.

Ohio Fuel Gas Company completed 15 miles of 12½-inch natural gas line to connect its system with that of the Dayton Power and Light Company.

Ohio Fuel Gas Company completed 18 miles of 5-inch natural gas transmission line from its terminal at Urbana to Bellfontaine.

Oklahoma

Natural Gas Pipe Line Company of America and **Texoma Natural Gas Company** propose to make additions to their combined transportation system. Texoma proposes to make additions to its dehydration and gasoline plants, to its compressor stations, and to build 11 miles of 26-inch loop. Natural Gas Pipe Line proposes to make additions to its compressor stations, construct a new compressor station and dehydration plant near Guymon, and build 120 miles of 24- and 26-inch loop.

Kerr-McGee Oil Industries, Inc. is building a 6-inch crude line from the North Davis field in Garvin County to Wynnewood.

Lone Star Gas Company is building a 21-mile, 10-inch natural gas line from the Cumberland field, Marshall County, to Denison, Texas.

Stanolind Pipe Line Company is looping its Drumright to Whiting Ind. crude transmission system with 20-inch pipe that will eventually provide a complete 632-mile 20-inch system between the two points.

Sunray Oil Corporation is building 83 miles of 8-inch products pipe line from its Allen refinery to Drumright where it will connect with the Great Lakes Pipe Line Company system.

Stanolind Pipe Line Company replaced a 4-inch gathering line in the Cache Creek field with a new 6-inch line.

Cities Service Gas Company completed a 64-mile, 12-inch natural gas line from West Edmond field to Drumright.

Great Lakes Pipe Line Company completed a 600-mile, 8-inch products

Pipe Line Construction in 1946

pipe line from Drumright to Sioux Falls, S. D. A 500-mile, 6- and 8-inch extension of this line from Sioux Falls to Grand Forks, N. D., is nearing completion.

Interstate Oil Pipe Line Company completed a 6-mile, 4-inch crude line from the Lone Grove field to the north end of the old Brock field.

Sunray Oil Corporation completed a 12-mile, 4-inch crude line from the new Grief Creek field in Hughes County to the Greenleaf station.

Pennsylvania

New York State Natural Gas Corporation proposes to build 120 miles of 12- and 14-inch loop and 14 miles of 16-inch transmission line in Pennsylvania.

Iroquois Gas Corporation and **United Natural Gas Company** completed 20 miles of 16-inch loop between Little Valley, N. Y., and McKean County, Pa.

Socony-Vacuum Oil Company completed a 300-mile, 8- and 12-inch products pipe line from the Paulsboro, N. J., refinery to Midland.

United Natural Gas Company completed 6 1/2 miles of short natural gas lines in Jefferson and Elk counties.

Tennessee

Southern Natural Gas Company proposes to build 139 miles of 20- and 22-inch natural gas loops permitting it to serve Chattanooga and Lexington, Miss.

Kentucky Natural Gas Corporation completed 18 miles of 10 1/4-inch natural gas transmission line from Russellville, Ky., to Mitchellville.

East Texas

Trans-Continental Gas Pipe Line Company, Inc., proposes to build a 1380-mile, 26-inch natural gas line from East Texas to the Eastern Seaboard in the vicinity of New York and New Jersey.

Metropolitan Eastern Corporation's proposed 825-mile, 18-inch natural gas transmission line from Carthage field to the vicinity of Hamilton, O., has been postponed indefinitely.

Magnolia Pipe Line Company is building a 650-mile, 20-inch crude line to extend from its trunk line terminal and tank farm near Corsicana to Patoka, Ill., where it will intercept a relay line that serves 8 refineries of the Socony-Vacuum Oil Company in the midwest and east.

Humble Pipe Line Company completed a temporary 4-mile, 4-inch crude line from Mount Sylvan field to the Pure Transportation Company's Van-Smith's Bluff carrier.

Humble Pipe Line Company completed 7 miles of 10-inch loop on its Hawkins-East Texas line.

Lone Star Gas Company completed 79 1/2 miles of 14-inch natural gas transmission line from Carthage field to Opelika field where it connects with the company's main system.

Lone Star Producing Company completed three 7-mile products lines, two 2-inch and one 3-inch, from Carthage field to a loading rack at Carthage townsite.

Magnolia Petroleum Company completed a 4-mile, 3-inch crude line from Opelika field to Lone Star Producing Company's recycling plant where it connects with Gulf's products line.

Pan American Pipe Line Company completed a 4 1/4-mile, 4-inch crude line from Manziel field to its Quitman-East Texas combination 4- and 6-inch line.

Shell Pipe Line Company completed an 18-mile, 4-inch lateral from Douglas station to Rusk station.

Sinclair Refining Company completed an 11-mile, 6-inch natural gas line from Chapel Hill field to the East Texas field.

Talco Pipe Line Company completed an 11-mile, 6-inch, crude line from Merigale field to Coke field, where it connects with the company's discharge line.

North Texas

Continental Pipe Line Company is building 14 miles of 4-inch crude gathering lines in the Hildreth, Lewis Stuart and North Stoneburg fields, Montague County.

Continental Pipe Line Company completed a 20-mile, 4-inch crude line from its booster station in the Swastika field to Ewalt field.

Sinclair Refining Company completed a 5-mile, 4-inch line from the Wilson field to Woodbine field.

The Texas Pipe Line Company completed an 8-mile, 4-inch crude line from National-Tolbert field, Wilbarger County, to connect with its Texas Panhandle-Electrica trunk line.

Toronto Pipe Line Company completed 6 miles of 4-inch crude line from a tank car rack site near Mabelle townsite to its gathering systems in the Mabelle, Rendham and Seymour fields, Baylor County.

Texas Panhandle

Northern Natural Gas Company is building approximately 250 miles of 18- to 24-inch loop and extensive additions to compressor stations on its Texas to Minnesota natural gas transmission line. In addition, Northern Natural has an application before the FPC covering other extensive facilities to be added to the line at a cost of nearly \$13 million. Included is about 140 miles of loop of the same pipe diameters as those now being constructed.

Panhandle Eastern Pipe Line Company has been authorized by FPC to build 465 miles of 18- to 26-inch loop and lateral natural gas lines on its Texas Panhandle to Michigan system. Other facilities to be constructed by the company include new compressor stations and additions to existing compressor stations.

Michigan-Wisconsin Pipe Line Company has been authorized by FPC to build 1069 miles of 22- to 26-inch natural gas transmission line from Hansford County to the Austin storage field in Michigan. Construction was opposed by Panhandle Eastern Pipe Line Company, which has petitioned for reopening of the hearing that authorized Michigan-Wisconsin to build the line.

Panhandle Eastern Pipe Line Company is building 50 miles of 18-inch natural gas trunk line from the vicinity of Shamrock Oil and Gas Company's natural gas processing plant in Moore County to the Hansford compressor station, and 24 miles of 26-inch line from the Tuscola compressor station paralleling existing loop lines.

South Texas

Sinclair Refining Company is reportedly planning a products line from Corpus Christi to Austin via San Antonio.

Tennessee Gas and Transmission Company is building 410 miles of 26-inch loop on its Texas-West Virginia line. The company has applied to FPC for permission to build 832 miles of 20-, 24- and 26-inch loop to its present Texas-West Virginia system. If authority for construction of the latter line is granted, Tennessee Gas will have a second continuous line from Texas to the Appalachian area.

Tennessee Gas and Transmission Company is building a 95-mile, 16-inch extension from its main line in Nueces County to the San Salvador field in Hidalgo County.

Magnolia Pipe Line Company completed a 35-mile 8-inch loop on its line from the Seeligson field to its Corpus Christi terminal.

Reynolds Pipe Line Company is building a 30-mile, 12-inch natural gas line from La Blanca field through North and South Weslaco fields to the north bank of the Rio Grande.

Humble Pipe Line Company completed an 18-mile, 6-inch crude line from Seeligson field to Canales field.

Sinclair Refining Company completed a 5-mile, 8-inch products line from the company's White Point refinery across Nueces Bay to its second refinery at Corpus Christi.

Southern Pipe Line Company completed a 30-mile, 6-inch crude line from Falls City field to Pettus.

Sun Pipe Line Company completed 84 miles of 10-inch crude line from the Seeligson field near Premont to Aransas Pass, and 34 miles of 8-inch crude line from the Kelsey-Bass field to the Sullivan-Mariposa field.

Upper Gulf Coast of Texas

The Ohio Oil Company will build 7 1/4 miles of natural gas line from the Nada field connecting with Tennessee Natural Gas Transmission Company's 24-inch line near El Campo, and 11 miles of 6-inch natural gas line from the Orange Hill field to Tennessee Gas' line near Wallis.

The Texas Pipe Line Company is building 140 miles of 16- and 22-inch crude line from West Columbia field through Houston to Port Arthur and Port Neches.

The Texas Pipe Line Company and **Magnolia Pipe Line Company** are jointly building a 343-mile, 10- and 12-inch products line from Spindletop to Dallas and Fort Worth with an 80-mile, 8-inch lateral line being built from the line at Hearne to Austin and a 26-mile, 6-inch extension from Austin to San Marcos. At San Marcos the 6-inch line will connect with an existing 6-inch line to San Antonio.

Shell Pipe Line Corporation is building 110 miles of 6-inch products line from Shell Oil Company's natural gasoline plant in the Sheridan field to Houston.

City Industrial Gas Company of Houston completed 5 miles of 14-inch natural gas line from its Magnolia Park gas system near Houston to the old Southwest Emergency Pipe Line which it purchased in 1946. The latter line carried oil from Southwest Texas to Houston during the war.

Humble Pipe Line Company completed a 276-mile, 8-inch products line from Baytown to Irving terminal, between Dallas and Fort Worth.

Humble Oil & Refining Company completed 20 miles of 4- to 20-inch gathering lines in the Friendswood and Clear Lake fields, Harris County.

Katy Operators Committee completed a 50-mile, 6-inch products line from Katy field to a terminal on the Houston ship channel.

Standard Oil Company of Texas completed 11 miles of 6-inch crude line from the mainland to the Smith Point field in Galveston Bay.

Stanolind Oil & Gas Company completed 80 miles of gathering lines in the Hastings field. The new lines tie into Stanolind's new pressure-maintenance plant in the field.

Warren Petroleum Company completed an 82-mile, 6- and 8-inch products line from Lake Creek field, Montgomery County, to Norsworthy Terminal on the Houston ship channel, and on to Texas City.

West Texas

The Texas Pipe Line Company is making a study of constructing, with other interests, a 440-mile, 20-inch line from the Permian Basin to Cushing, Okla.

Lone Star Gas Company proposes to build a 40-mile, 6-inch natural gas line from the Eden gas field in Concho County to its system at Miles.

Humble Pipe Line Company authorized the installation of 41 miles of 4- and 6-inch crude line to handle sweet crude production in Andrews, Ector and Winkler counties to the Wink station and tank farm.

Pasotex Pipe Line Company is building 98 miles of 10 1/4-inch crude line from Yates field to its terminal at Wink.

Humble Pipe Line Company authorized the installation of 84 miles of 10- and 12-inch loop on its trunk line between McCamey and Kemper terminal and between Kemper and Ingleside.

Phillips Petroleum Company is building 75 miles of 12-inch gasoline loop on its Borger to Wichita, Kansas, line.

Standish Pipe Line Company authorized the construction of 289 miles of 12-inch crude line from Goldsmith to Phillips Petroleum Company's refinery at Borger, Texas Panhandle. The company proposes to build an 8-inch extension of this line from Borger to connect with its system in the Oklahoma City field, Oklahoma.

Stanolind Pipe Line Company authorized the construction of a 45-mile, 16-inch crude line from its Wesson field station to the Fullerton "8500" field and that part of the Fullerton field to the west and south, and 40 miles of 16-inch crude line from the station to Ector County fields, with extensive feeder lines.

Stanolind Pipe Line Company is building a 10-mile, 4-inch extension line from its Texas-Oklahoma 16-inch trunk line to Anton field.

Atlantic Pipe Line Company completed a 48-mile, 8-inch extension to its crude system from its terminal and main line station near Midland to Block 31 field.

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the 16,625 miles of all lines under consideration, 13,759 miles are gas. Several large projects were completed or got under way in a real attempt to move abundant gas supplies from Texas, Oklahoma, Kansas and Louisiana into northern and eastern industrial areas. Denver got a relieving supply of Hugoton gas. The "Biggest Inch" by late December began taking Texas Panhandle gas into Los Angeles, as California became an importer. California, whose reserves went lavishly into the recent war in the Pacific, may also become an importer of West Texas crude if plans now being considered by Shell interests are defined in 1948. The Appalachian and the New York area got some additional gas and expected more as Texas Eastern Transmission Corporation purchased and converted the Big and Little Inch oil lines to gas transmission lines. Connecting companies in the Southeast States, Great Lakes and Atlantic Coast areas based immediate plans to expand their systems on TET's increased ability to supply them. Tennessee Gas Transmission Company made very good progress on a program to vastly increase capacity, both by looping and adding compressor stations along the line. If FPC approves its recent application to extend its line into New York, Boston and Pittsburgh,

gas supply in the East would no longer be as uncertain as now.

Despite increased facilities for transportation of gas and products, serious shortages in early 1948 revealed the necessity of bringing more supplies into the New York and Detroit areas. Numerous plants have closed intermittently because of the short supply of fuel, with first consideration going to home heating. Michigan-Wisconsin Pipe Line Company, now constructing a line to take 325 million cubic feet of gas daily from the Texas Panhandle to Detroit, does not expect to complete construction before April, 1950.

FPC estimated in December that an additional 1,310,000,000,000 cubic feet of gas would be carried by interstate lines if all proposed projects were completed.

Products lines completed during 1947 totaled 2598 miles, more than in any year except 1943 and 1941, though only 878 miles were being built, 508 miles were authorized and 235 miles were known to be under consideration.

Great Lakes Pipe Line Company completed station and terminal work during 1947 and now has an 1100-mile products system in operation throughout the Midwest. Standard Oil Company of Indiana's system from its Whiting, Ind., refinery was extended into Minnesota; Socony-Vacuum Oil Company extended

its carrier from the Paulsboro, N. J., refinery to Midland, Penn.; Sinclair Refining Company completed a system in Ohio and part of Michigan which may some day extend to Texas. Concentration of construction of products lines at the end of the year was in Texas, where two systems from the Gulf Coast and Southwest areas will complete in 1948 to carry products into Dallas-Fort Worth terminals and later into Midwest carriers. Phillips Petroleum Company was not able to complete its line to transport Borger refined products to Denver, and is stopped at La Junta, Colo., until more pipe is available.

There was less emphasis on crude line construction during 1947, though major lines were authorized and several were being considered. Increased crude line capacity was obtained by extensive and well-planned looping programs.

During the year, 1876 crude lines were completed, 824 miles were being laid and 1891 miles were authorized. Under consideration were an estimated 2631 miles of crude lines to be involved in long-range projects, such as a big-inch carrier from Midland, West Texas, to Wilmington, Calif. Several companies are planning outlets for the ever-increasing Permian Basin production of West Texas and New Mexico, and the Rangely field, Colorado.

Pipe Line Activity in 1947

Alabama

Atmore, (City of) completed 20 miles 6-inch transmission, 20 miles distribution lines connecting to United Gas Pipe Line Company. System designed and constructed by Ray R. Littrell, Opelousas, La.

Arizona

El Paso Natural Gas Company received FPC authorization for approximately 83 miles of 4½-16-inch line, and additional facilities. Construction scheduled February, 1948 on 5 miles 4½-inch from main line to Tucson City Gate Station 2, and 20 miles 8-inch from main line to Phoenix. Construction by company crews.

El Paso Natural Gas Company completed 17-mile 6-inch loop on 8-inch line serving Morenci.

El Paso Natural Gas Company is constructing 20 miles of 8½-inch gas line from 26-inch main line to Phoenix. Scheduled to complete February, 1948.

Arkansas

Arkansas Louisiana Gas Company completed 21 miles 12½-inch, 4½ miles 8½-inch gas lines as additions to "L System," including two 8½-inch lines across Arkansas River. **Arkansas Western Gas Company** completed 11 miles 8-inch gas line near Cass Mountain, Franklin County. Worth James Construction Company, contractor.

Interstate Oil Pipe Line Company completed 8½ miles of 6 and 7-inch crude outlet for Spirit Lake and Miller fields to main trunk line near Mandeville station.

California

General Petroleum Corporation completed 5 miles of 8-inch products line from Torrance refinery to Edison Company, Redondo Beach. Hood Construction Company, Lynnwood, Calif., contractor.

Pacific Gas & Electric Company completed 2 2/5-miles 20-inch, 3 miles 16-inch gas line from Rosedale-Greeley field, San Jo-

quin Valley. Pacific Pipeline & Engineers, Ltd., Los Angeles, contractor.

Pacific Gas & Electric Company was completing 22 miles 20- and 24-inch gas line from Sunnyvale to Redwood City. Pacific Pipeline & Engineers, Ltd., Los Angeles, contractor.

Pacific Public Service Company completed early in 1947 approximately 35 miles, including laterals, 4-12-inch line from Suisun Bay, Kirby Hills, Cache Slough, and West Rio Vista gas fields to Standard Pacific's connection at Pittsburgh. About 3 miles of water crossings were involved. Pacific Pipeline Construction Company, contractor.

Signal Oil & Gas Company awarded contract for 3½ miles of 22-inch gas line from Long Beach to Signal Hill to Pacific Pipeline & Engineers, Ltd., Los Angeles.

Southern California Gas Company and Southern Counties Gas Company completed 214-mile, 30-inch sector of the "Biggest Inch" gas line, from connection with the El Paso section at Blythe to Los Angeles. Complete line runs to New Mexico and North Texas.

Southern California Gas Company completed 10 miles of 10-inch and 7½ miles of 6-inch from Trico and Delano, and was completing 18 miles of 8-inch line from there to Tipton, 15 miles of 6-inch line from there to Porterville. The lines will add 26 million cubic feet of gas daily to the San Joaquin Valley area, will be used jointly with Pacific Gas & Electric Company.

Southern California Gas Company proposed construction of an 8-inch line from the "Biggest Inch" line at Desert Center south to Calexico, about 68 miles of line.

Standard Oil Company of California started construction of 6 miles of 3-inch butane line from the refinery to Buena Park. Hood Construction Company, contractor.

Colorado

The California Company is planning a 180-mile, 10-inch line carrying 22,000 barrels of crude per day from Rangely field to

Salt Lake City. Construction will start in spring of 1948; scheduled completion, July, 1948.

Cheyenne Light, Fuel & Power Company constructed 11 miles of its proposed Denver-Cheyenne 16-inch gas line for use as storage. Construction could not be completed for lack of pipe.

Colorado-Wyoming Gas Company awarded contract for a 120-mile, 8-inch gas line from Denver to Cheyenne to Pacific Pipeline & Engineers, Ltd., Los Angeles. Only 85 miles remained to be laid in January, 1948. Line ties into Colorado Interstate's Hugoton, Kans.-Denver gas line completed October, 1947.

Standard Oil Company of California will award contract in March, 1948, for a 160-mile, 10-inch line to carry 25,000 barrels of crude from Rangely field to Salt Lake City. Scheduled completion date in 1949. Line will be operated by Salt Lake Pipe Line Company.

Stanolind Pipe Line Company's 1946 proposed line, 120 miles 12-inch from Rangely field to Wamsutter, Wyo., paralleling existing 10-inch line of Utah Oil Refining Company, subsidiary of Standard Oil Company (Indiana), remained in abeyance during 1947. Nothing announced for 1948. Plans included extension from Wamsutter to Casper, Wyo. Line would carry 25,000 barrels of crude per day.

Superior Oil Company of California completed 60 miles of 8-inch gas line from Douglas Creek field to Grand Junction.

Utah Oil Refining Company has dropped its plan to construct in 1948 a crude carrier from Rangely field to Salt Lake City refineries.

Connecticut

Connecticut Pipe Line Corporation plans to construct a 40-mile, 8-inch products line from New Haven to Hartford, only such line wholly within the state. Capacity approximately 19,000 barrels daily. Scheduled completion date, end of 1948.

Illinois

Central Illinois Public Service Company completed 1 mile of 4-inch gas line near Havana, 5½ miles of 6-inch gas line near Mattoon. S. H. Hobbs Construction Company, Lawrenceville, Ill., contractor.

Chicago District Pipe Line Company completed 11-mile, 24-inch loop on its Crawford-Chicago gas line, increasing deliveries to Chicago 95 million cubic feet daily.

Chicago District Pipe Line Company completed 19 miles of 24-inch gas line between Joliet and Chicago. Midwestern Constructors, Inc., Tulsa, contractor.

Gulf Refining Company, Tulsa Pipe Line Division was completing 48 miles of 10-inch lines, 5 loops, between Centralia and Dublin, Ind., making 2 complete 10-inch lines between these points. Sheehan Pipe Line Construction Company, Tulsa, T. & L. Construction Company, Centralia, contractors.

Western United Gas & Electric Company completed 5 miles of 8-inch and 9 miles of 12-inch gas line between McHenry meter station and Crystal Lake, south of Downers Grove. Midwestern Contractors, Chicago, contractor.

Indiana

Anchor Hocking Glass Corporation planned 10 miles of 6-inch gas line between Winchester and Ripley, W. Va., for completion February, 1948. Construction by Midwestern Constructors, Inc., Tulsa. Job includes take-up of 7 miles of 6-inch gas line.

Eastern Indiana Gas Company completed laying 6½ miles of new 4-inch line, 1½ miles of used 4-inch line, and took up 3½ miles of 4-inch near New Castle. S. H. Hobbs Construction Company, Lawrenceville, Ill., contractor.

Indiana Gas and Water Company completed 5½ miles of 8-inch, 2-7/10 miles of 6-inch,

and approximately 1 mile of 4-inch gas lines near Lafayette. S. H. Hobbs Construction Company, contractor.

Standard Oil Company (Indiana) completed its 662-mile 8 and 10-inch products line from the company's Whiting refinery to Moorehead, Minn., via Minneapolis and St. Paul. Stanolind Pipe Line Company acted as agent in construction.

Iowa

Great Lakes Pipe Line Company awarded contract to take up and recondition 120 miles of 6-inch products lines between Oceola and Council Bluffs to A. C. Holder Construction Company, Tulsa.

Kansas

Cities Service Gas Company plans to start a 389-mile, 26-inch gas line from Hugoton field to Kansas City, completing 61 percent by end of 1948 at a convenient point on system, finish in 1949. Housing and compressor station construction under way. Estimated capacity of line, 267 million cubic feet.

Cities Service Gas Company proposes to replace 44 miles of 16-inch line with 20-inch.

Cities Service Gas Company obtained FPC authorization to construct 32 miles of 20-inch line from North Welda to Ottawa station.

Colorado-Interstate Gas Company completed its gas carrier from Hugoton field to Denver. Project included 240 miles of 20-inch, 20 miles of 20-inch bypass around Denver, 110 miles of 4½-20-inch gathering system, compressor station at Lakin. Capacity: 100 million daily. J. R. Horrigan Construction Company, Houston, Contractor.

Colorado Interstate Gas Company prepared to start 30 miles of 4-16-inch gas gathering system near Ulysses, Grant County, Kansas. J. E. Cheek Construction Company, Pampa, Texas, contractor. Completion scheduled in April.

Hope Natural Gas Company has application before FPC to construct a 1128-mile 22-inch gas carrier from the Hugeton field to Kanawha County, W. Va., and laterals and compressor stations.

A. R. Jones Oil & Operating Company completed 11 miles of 10¾-inch line from its new compressor station 2 miles south of Great Bend to Northern Natural Gas Company's sweetening plant 2 miles northeast of Albert. A gathering system in Barton, Pawnee and Rush counties also completed.

Kansas-Nebraska Natural Gas Company completed 56 miles of 16-inch and 21 miles of 12½-inch gas lines from Phillipsburg to Hastings, Neb., with approximately 100 miles of lateral lines to serve Nebraska communities.

Kansas-Nebraska Natural Gas Company completed 8½ miles of 6-inch gathering lines in Pawnee County. R & G Pipeline & Construction Company, Russell, Kansas, contractor.

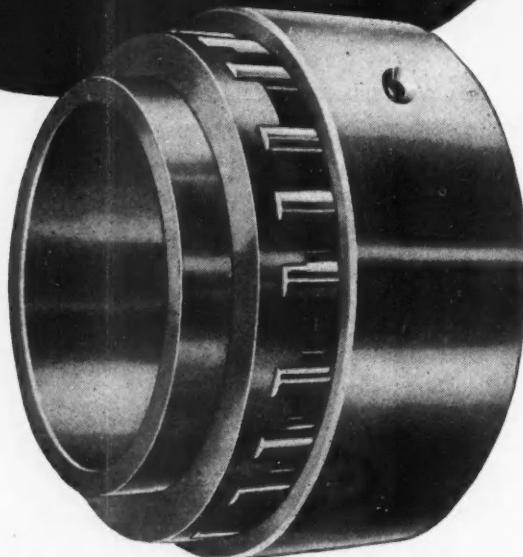
Kansas-Nebraska Natural Gas Company applied to FPC for authorization to loop part of the Scott City-Stockton-Phillipsburg and Otis-Plainsville lines.

Magnolia Petroleum Company prepared to begin construction on gas gathering system in Hugoton field. Lines from 4 counties in western Kansas to deliver to plant to be constructed 2 miles east of Hickok starting mid-1948. R. H. Fulton & Company, Lubbock, Texas, to lay 6 miles of 24-inch, 19 miles of 20-inch, 3 miles of 18-inch, 2 miles of 16-inch, 6 miles of 12½-inch, 7½ miles of 10¾-inch, 12½ miles of 8¾-inch, 23½ miles of 6-inch, 56½ miles of 4½-inch. Company will award contract for 7½ miles of 16-inch, 5¾ miles of 8¾-inch, 52 miles of 4½-inch later in year.

Mid-Continent Gas Transmission Company awaited FPC authorization for 400 miles of 26-inch gas line from Liberal to Kansas City, 438 miles of 26-inch from there to St. Paul, plus 3 compressor stations.

Northern Natural Gas Company is looping its main line north of Clifton in Nebraska, Iowa and Minnesota, involving 35 miles of 16-inch transmission, 150 miles of 18-24-inch loops, and construction of 6 compressor stations, increasing capacity of system 82 million cubic feet daily. Eastern Construction Company, Dallas, and McVean &

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Roberts Pipe Line Construction, Odessa, Texas, completed some loops.

Northern Natural Gas Company is waiting on FPC authorization for 320-mile, 26-inch loop from Garden City station to Palmyra, Neb.; 245-mile, 24-inch loop from Palmyra to Farmington, Minn.; 17-3/10-mile, 20-inch loop from Palmyra to Saunders County, Neb., giving system increase of 173 million cubic feet of gas per day.

Phillips Petroleum Company completed 3½ miles of 3-inch, 9 miles of 8-inch extension lines in Butler, Greenwood and Coffey counties. Vaughn & Taylor, Wichita Falls, Texas, contractor.

Sinclair Refining Company completed 50 miles of 18-inch loop on its trunk system near Iola. O. C. Whitaker Company, Fort Worth, contractor.

Skelly Oil Company completed 45 miles of 8-inch line, 15 miles east of Hutchinson, 30 miles near McPherson. H. V. Knupp Construction Company, Great Bend, Kansas,

and M. E. White Construction Company, McPherson, contractors.

Skelly Oil Company completed 10 miles of 4-inch crude line from Boggs pool, Barber County, to Sohio gathering line in northwestern part of county.

Socony-Vacuum Oil Company is preparing to construct 7 miles of crude line from the Adel pool, Sheridan County, to Morel pool, Graham County.

Kentucky

Central Kentucky Natural Gas Company received FPC authorization late in 1947 for 23 1/5 miles of 24-inch line from Foster to connection on Ohio River with Cincinnati Gas and Electric Company's line, and for a new metering station.

Commonwealth Natural Gas Corporation has an application before FPC to build 537-mile 20-inch gas line, capacity 100 million cubic feet per day, from connection with TGT near West Bend to Norfolk, Va., and lat-

er to Roanoke, Petersburg, Richmond and Suffolk, Va.

United Natural Gas Company was ready to start on a 23-mile, 24-inch loop on main line between Alexandria and Foster. Contract awarded to Williams Brothers, Tulsa. Scheduled completion date, February 15.

Louisiana

Anchor Gasoline Corporation completed a 35-mile line carrying 10 million cubic feet of gas from wells at Church Point area to Eola processing plant.

Arkansas-Louisiana Gas Company completed 9 miles of 10-inch gas line, capacity 18 million cubic feet daily, from Ada gas field, Webster Parish, to company's trunk line.

Continental Oil Company completed a 50-mile, 14-inch line from Tepeete field to Westlake and the alkali plant at Lake Charles. Eastern Construction Company, Dallas, contractor.

Interstate Oil Pipe Line Company completed laying 8 miles of 12-inch lines along Morganza Floodway, Pointe Coupee Parish. Also completed were two 8-inch lines replacing six 8-inch lines on Moore to Anchorage trunk system.

Interstate Oil Pipe Line Company completed 12½-mile, 4-inch line from Bayou Mallet, east of Baton Rouge, to the Sunset Roanoke line. Townsend Brothers Construction Company, Bunkie, La., contractor.

Mississippi River Fuel Corporation was completing 265 miles of 22-inch loops, 14 miles of 12-inch loops on the Monroe-St. Louis natural gas carrier. Looping program mainly in Arkansas, Louisiana and Missouri with line from St. Genevieve to East St. Louis. Increases system's capacity by 50 million cubic feet. Holland Construction Company, Tulsa; Ford Bacon & Davis, New York, contractors.

Mississippi River Fuel Corporation was given FPC authorization to proceed with a 231-mile looping program from Perryville, La., to St. Louis, increasing system's capacity by 83 million cubic feet daily. Lines will connect existing and authorized sections parallel to 22-inch main line, resulting in 2 separate main lines. Program includes 199 miles of 22-inch, 2 3/10 miles of 12-inch for stream crossings, 30 miles of 10-inch line.

Pelican Oil Purchasers completed 20 miles of 6-inch crude line near Jennings. Latex Construction Company, Houston, contractor.

Root Petroleum Company completed 26 miles of 6-inch crude line from Ora field to El Dorado, Ark., refinery. Snelling Company, Shreveport, La., contractor.

The Texas Production Company began late December a 14-mile 8-inch gas line from Lake Salvador and Delta Farms to Lafitte plant, near Harvey. Associated Contractors & Engineers, Houston, contractor.

United Gas Pipe Line Company completed a 24-mile, 12-inch gas trunk line from Barataria, Delta Farms, Bayou Perot and Stella fields to New Orleans, with a capacity of 65 million cubic feet daily. Project also included three 10-inch Mississippi River crossings, 3300 feet each. B & M Construction Company, Oklahoma City, contractor.

United Gas Pipe Line Company completed a 16-mile, 12-inch gas line from Hayes field, Calcasieu Parish, to the Iowa compressor station. Project includes 1 mile 4-inch gathering lines and 2 well meter stations.

United Gas Pipe Line Company started late December construction of 4 3/5 miles 7-inch, 9 miles of 8-inch gas line from West Lake Verret field, St. Martin Parish, to Oaklawn Plantation. Brown & Root, Inc., Houston, contractor.

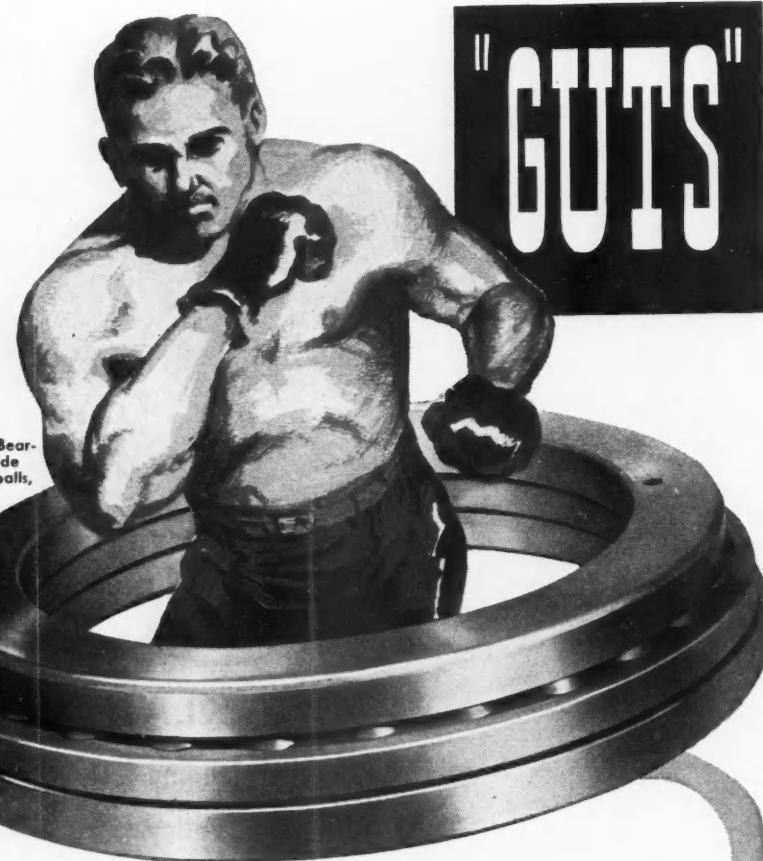
Maine

Portland Pipe Line Company proposed construction of a 20-inch light crude carrier from Portland to East Montreal, Canada, with pipe for construction not anticipated before 1950. Company would construct 166 miles to International Boundary; Montreal Pipe Line Company, Ltd., remaining 70 miles in Canada. Line, paralleling present carrier, to carry approximately 60,000 barrels daily. Work on existing 8 pump stations in 1947 increased capacity of present 12-inch line 10,000 barrels. Further station work planned to obtain another 10,000-barrel addition to capacity.

Socony-Vacuum Oil Corporation announced plans for a 11,500-barrel products line from S. Portland terminal to Bangor, via Hallowell, near Augusta. Line will be constructed of 61 miles 6-inch, 66 miles 4-inch. Construction may begin in spring, 1948.

Maryland

Cumberland & Allegheny Gas Company has FPC authorization to construct 2 1/5 miles



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of 6-inch gas line from the Pennsylvania border to Allegany County connection.

Michigan

Austin Field Pipe Line Company is constructing 162 miles of 24-inch gas line, 42 miles of 10 and 6-inch laterals from the Austin storage field, Mecosta County, to Detroit. The project ties into the Michigan-Wisconsin Pipe Line Company 1181-mile line from Texas Panhandle, and will transport 325 million cubic feet daily. One 7200-hp station being built on line. J. R. Horrigan Construction Company, Houston, contractor. To be completed by summer, 1948.

Austin Field Pipe Line Company authorized to construct 140 miles of 26-inch gas line from the Austin field to Detroit, a metering station at the Detroit terminus, a compressor station at the Austin field, which Michigan Consolidated Gas Company will lease and operate.

Austin Field Pipe Line Company has FPC approval to construct 8 miles of lines in

the Austin storage field, 9½ miles of lines in the Reed City gas storage field. It will take gas from Michigan-Wisconsin Pipe Line Company lines now under construction.

Campbell, Wyatt & Cannon Foundry Company completed a 31 mile, 6-inch gas line from Kimball Lake field, Newaygo County, to Muskegon. Anderson Brothers Corporation, Houston, contractor.

Dow Chemical Company completed 29 miles of 6-inch gas line from Headquarters field to Loomis. Somerville Construction Company, Ada, Mich., contractor.

Michigan Consolidated Gas Company received FPC authorization to construct approximately 17 miles of 24-inch line from Evergreen, eastern terminus of the Austin-Detroit line to Melvindale.

Michigan Gas Storage Company has authority to construct 150 miles of 24-inch line from Chelsea terminal of Panhandle Eastern Pipe Line Company to Winterfield and Cranberry Lake gas storage fields.

Panhandle Eastern Pipe Line Company completed 70 miles of 16-inch gas lateral from Allen Park to west bank of Detroit River to connect with 2 parallel, 12-inch lines under river to International Boundary.

Panhandle Eastern Pipe Line Company completed a gas gathering system in Howell field, including 8 miles of 8-inch, 8 miles of 10-inch, 2 miles of 6-inch, and 7 miles of 4½-inch. Company also completed 19 miles of 10-inch transmission from the field to its trunk line, carrying 10-15 million cubic feet of gas per day.

Sinclair Corporation completed 42 miles of 6- and 4-inch crude line from Reed City to Newaygo. E. J. Mahoney Contracting Company, Mt. Pleasant, Mich., contractor.

Sun Oil Company completed a gas gathering system in Kimball Lake field, Newaygo County: 12 miles of 4-inch, 4 miles of 6-inch. Somerville Construction Company, Ada, Mich., contractor.

Mississippi

Atlantic Gulf Gas Corporation has application before FPC for 1530-mile, 26-inch gas system from Hattiesburg to Georgetown, S. C., and Jackson, Fla. Gas to be purchased from United Gas Corporation.

Interstate Oil Pipe Line Company completed 17½ miles of 10-inch crude loop between Cranfield to Liberty station, increasing system's capacity by 10,000 barrels a day. Associated Contractors & Engineers, Houston, contractor. Another 17½ miles of 10-inch completed loop between the two points in late 1947. Latex Construction Company, Houston, contractor.

Interstate Oil Pipe Line Company completed 10 miles of 6-inch crude line from Cranfield to LaGrange, 8 miles of 4-inch pipe to the Carthage Point field. Associated Contractors & Engineers, Houston, contractor.

Southern Natural Gas Company completed 80 miles of 16-inch gas line from Gwinville field to Pickens, connecting to main line. Latex Construction Company, Houston, contractor.

Southern Natural Gas Company authorized to construct facilities for main gas transmission line. Latex Construction Company, Houston, completed 18½ miles of 20-22-inch loops, near Birmingham. Other 1947 construction authorized: 9 miles of 6 5/8-inch loop paralleling Meridian branch line, 6½ miles of 6¾-inch loop paralleling the Columbus-West Point branch line. The 1947-48 construction authorized by FPC consists of 130 miles of 24-20-inch main line loops, 33 miles of 12¾-inch loop on the Gadsden, Ala., branch line, extensions to Lexington, and to White Plains, Ala., connecting with a 165-mile extension to Jacksonville, Fla., a 155-mile main line connection for Tallahassee, Ala. Approval to construct a line to Chattanooga, Tenn., and various towns in northern Alabama, has not been given by FPC.

United Gas Pipe Line Company completed an 85 mile, 6-inch line from Jackson station to Philadelphia, Neshoba County.

United Gas Pipe Line Company applied for permission to construct 93 miles of 18-inch gas line from Baxterfield, Marlon County, to Mobile, Ala., to install 8½ miles of 16-inch pipe as replacement for smaller line between Mobile and Pensacola, Fla., and to loop a tap line from main line to Florida Pulp and Paper Company, near Cantonmen.

United Gas Pipe Line Company completed a 34-mile, 6-inch gas line from the Gwinville field to the McComb lateral line.

United Gas Pipe Line Company completed a gas gathering system for the Baxterfield, Lamar County, and a 10¾-mile, 12-inch line extending west to its present system with connection at Boogalusa. The company also constructed a gathering system in the Gwinville field.

Nebraska

Kansas-Nebraska Natural Gas Company was awaiting FPC approval for construction of 47 miles connecting line between Cambridge and Coazad.

Kansas-Nebraska Natural Gas Company asked for FPC permission to replace a line between Holdrege and Elm Creek with larger pipe, and to extend the line from Elm Creek 35 miles north.

New Jersey

Socony-Vacuum Oil Company completed a 350-mile, 12-10-8-inch products system from Paulsboro to Malvern, Penn., Lancaster, and Midland. The line is designed for westward movement only. O. C. Whittaker Company, contractor.

New Mexico

El Paso Natural Gas Company completed 737 miles of 26-inch from Eunice to Blythe, Calif., where it connects with Southern Counties Gas Company and Southern California Gas Company's 30-inch line into Los Angeles. A lateral from Dumas, Texas, to Eunice completes the line. Capacity, 125 million daily.

El Paso Natural Gas Company proposes to loop the New Mexico-California line with 438 miles of 26-inch, adding 100 million cubic feet of gas per day to system, from point in Lea County to Colorado River, near Blythe. Construction is not contemplated before 1950 or 1951.

El Paso Natural Gas Company proposes to add a second line to California, 470 miles of 25-inch from San Juan Basin to Needles, Calif., carrying 100 million cubic feet daily. Construction not contemplated before 1951.

El Paso Natural Gas Company completed a 46½-mile, 16-inch line from its Jal 1 plant to the 26-inch line in Eddy County.

Maljamar Repressing Company is constructing approximately 15 miles of various-sized gas gathering lines in the Maljamar field. McVean & Roberts Pipe Line Construction Company, Odessa, Texas., to complete January, 1948.

Phillips Petroleum Company completed a 35-mile gas gathering system of 4-6-8-10-16-20-inch pipe at Eunice.

The Texas Pipe Line Company, Shell Pipe Line Corporation, Empire Pipe Line Company, Sinclair Pipe Line Company (Basis Pipe Line System) are constructing a 500-mile project from Jal to Cushing, Okla., with Latex Construction Company, Houston, handling the 253-mile, 22-inch spread from Midland to Wichita Falls, Texas. The line will carry normally 150-200,000 barrels of crude daily. Contract has not been awarded on the 173-mile, 24-inch sector between Wichita Falls, and Cushing. The 67-mile, 20-inch section from Jal to Midland has been awarded to Morrison Brothers Construction Company, Odessa. Line will connect with Ozark Pipe Line System from Cushing to Wood River, Ill., to be built by Texas and Shell.

New York

Home Gas Company has application with FPC to build 26 2/5 miles of 12-inch gas line between Hancock and Cohocton, 25 miles of 10-inch line between Horsesheads and the Dundee storage field, and other facilities.

Penn-York Natural Gas Corporation was waiting on FPC approval to build a 65-mile, 10- and 14-inch line from York to Lewiston on the Niagara River, with 1200-hp com-

pressor station, to export 15 million cubic feet of gas daily to Dominion Natural Gas Company, Ltd., Ontario, Canada.

Ohio

East Ohio Gas Company completed 50 miles of 20-inch gas line between Jackson storage area, Stark County, and main line in Cleveland suburbs.

East Ohio Gas Company will start in 1948 an 84-mile, 20-inch line between Mullet Farm and Ross Farm stations to take Big Inch gas into system.

Ohio Fuel Gas Company completed a 47-mile, 16-inch line between Treat station, Licking County, and Crawford station, Fairfield County. This part of the 88 miles of 16-inch lines being laid in Lorain, Fairfield, Licking and Knox counties was constructed by Midwestern Constructors, Tulsa.

Ohio Fuel Gas Company has FPC approval for 22 miles of 16-inch between Brown and Pavonia station, via Monroe station, Knox and Richland counties, and for enlarging underground storage facilities at Perryville field.

Ohio Fuel Gas Company has authorization for a 90-mile, 20-inch line between Burlington and Crawford station, Lawrence and Fairfield counties. Midwestern Constructors, Tulsa, has contract.

Ohio Fuel Gas Company has completed 2½ miles of 20-inch Ohio River crossing, from point near Steubenville to West Virginia station. Midwestern Constructors, Tulsa, contractor.

Ohio Fuel Gas Company started in late 1947 a mile of 4-6-8-inch gathering line in Lorain, field and 2½ miles of 10-inch near Parma, just south of Cleveland. Midwestern Constructors, Tulsa, contractor.

Sinclair Refining Company completed extension of its refined products system: 56 miles of 6-inch line from Toledo to Detroit; 118 miles of 6-inch from Toledo to Columbus via Marion; 225 miles of 6-inch from Marion to Cleveland, Akron and Youngstown. Anderson Brothers Corporation, Houston, contractor.

Transit & Storage Company proposes to lay a 152-mile crude carrier from Cygnet to the International Boundary in Michigan, to connect to Imperial Oil, Ltd.'s lines to Sarnia, Ontario, refinery. The 16-inch line, with 1 pumping station, will replace one 8-inch and two 6-inch lines, and 4 stations now in use.

Oklahoma

Central Pipe Line Company completed a 2-mile, 3-inch crude outlet for the Munger field to a connection with Standish Pipe Line Company's line.

Cities Service Gas Company completed a cross-over line, from Mulhall, near Guthrie on the Wichita-Oklahoma City line, west side of system, to Drumright station on east side of system: 15 miles of 16-inch, 32 miles of 12-inch capacity, 32 million cubic feet. Permian Basin Construction Company, Odessa, Texas, and Al Johnson Construction Company, Oklahoma City, contractors.

Cities Service Gas Company completed an outlet for the Witcher field to its main line: 2 miles of 10-inch, ½ mile of 6-inch, capacity, 25 million cubic feet. Western States Construction Company, Oklahoma City, contractor.

Cities Service Gas Company completed a connection in Grady County to Consolidated Gas Utilities Corporation's line: 10½ miles of 16-inch. Capacity, 90 million cubic feet. Albert Johnson Construction Company, contractor.

Cities Service Gas Company completed the replacement of 19 miles of 12-inch line between Tallant and Hogshooter with 15½ miles of 16-inch pipe. Capacity of line now 62 million cubic feet. Permian Basin Construction Company, contractor.

Cities Service Gas Company was completing a gathering system near Guymon, Texas County, including 7 miles of 22-inch, 11 miles of 12-inch, 7 miles of 10-8-6-4-inch pipe. Carlson & Son Construction Company, Pampa, Texas, contractor.

Empire Pipeline Company completed a crude gathering system in the Lindsay field, McClain and Garvin counties, 13 miles of 6-inch, with 6- and 4-inch laterals.

Interstate Oil Pipe Line Company was completing 47 miles of 12-inch line connecting its Oklahoma City pump station with the Katie-Maysville area, Garvin County. Midwestern Constructors, Tulsa, contractor.

Lone Star Gas Company completed a 21-mile, 10-inch gas outlet from the Cumberland field, Marshall County, to intercept its North Texas line at Denison, Texas.

Mid-Continent Pipe Line Company completed 47 miles of 6-inch and 14 miles of 4-inch connecting line from the St. Louis pool to Elmore City, carrying 7500 barrels of crude. Capacity to be increased to 12,500. C. P. Carter Construction Company, Seminole, Okla., contractor.

Mid-Continent Pipe Line Company is starting a 17-mile, 4-inch line from South Canadian River to Fitts station, carrying 6600 barrels of crude. A. C. Holder Construction Company, Tulsa, contractor.

Natural Gas Pipeline Company of America completed an extensive 26-inch looping program on its Oklahoma-Joliet, Ill., system. R. H. Fulton, contractor, completed 46 4/5 miles from Station 2, Oklahoma Panhandle, to south end of old 26-inch loop, in Kansas except for Cimarron River crossing. J. R. Horrigan Construction Company, Houston, completed 66 1/5 miles from north end of old loop, near Garfield, to south end of old loop, near Wilson; also 69 4/5 miles from North end of old loop, near Haddam, to south end of old loop near Unadilla, Neb. Ray L. Smith & Son, El Dorado, Kans., completed 69 4/5 miles from east end of old loop near Orient, Iowa, to point 34 7/10 miles east of Station 8 in Iowa. C. S. Foreman Company, Kansas City, completed 1 4/5 miles double 20-inch Des Moines River crossing; also 40 2/5 miles loop from east end old loop near Arden, Iowa, to point near Crampton, Ill. Has not completed 19 4/5 miles of two 22-inch lines for Mississippi River crossing. Midwestern Constructors, Tulsa, completed 52 miles of 24-inch loop from point near LaSalle, Ill., to Joliet station, delivering to Chicago District Pipe Line Company.

Natural Gas Pipeline Company of America has authorization for 13 1/2 miles of 26-inch loop between Station 8 in Iowa and Des Moines River, 13 7/10 miles of 26-inch from Crampton to Station 10 in Illinois, 54 1/5 miles 24-inch from Station 10 to point near La Salle, and has awarded contract for 36 4/5 miles 26-inch Station 1 near Hooker, Okla., to point near Oklahoma-Kansas border to R. H. Fulton & Company.

Oklahoma Natural Gas Company has completed 7 1/2 miles of 8-inch line connecting Witcher field with main line to southeast. Western States Construction Company, Oklahoma City, contractor.

Oklahoma Natural Gas Company completed 12 miles of 12 ¾-inch line from Peppers Gasoline Plant, West Edmond field, to connection with main line. Western States Construction Company, contractor.

Oklahoma Natural Gas Company removed 19 miles of 16-inch pipe on its system. Western States Construction Company, contractor.

Shell Pipe Line Corporation and The Texas Pipe Line Company (Ozark Pipe Line System) may get under way in fall of 1948.



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with scheduled completion in 1949. System consists of 378 miles of 20-inch, 61 miles of 16-inch, from Cushing to Wood River, Ill., refinery, to Salem, Ill. It connects at Cushing to the Basin Pipe Line System from Jal, N. M., bringing approximately 150,000-200,000 barrels of crude out of the Permian Basin.

Skelly Oil Company completed 30 miles of 2-6-inch crude system near Velma, feeding into Interstate Oil Pipe Line at Tussy. J. Carlson & Son, Pampa, Texas, contractor.

Skelly Oil Company plans to lay 9 miles of 6-inch, continuing present crude gathering system near Velma.

Stanolind Pipe Line Company completed most of its 1947 looping program on Drumright-Whiting, Ind., system. Midwestern Constructors, Tulsa, finished 178 miles of 20-inch from Drumright to Freeman, Mo., meeting loop laid in 1946; 262 miles between La Plata, Mo., and Manhattan, Ill., almost completed by O. C. Whitaker Company, Fort Worth. Completion gives continuous 20- and 22-inch carriers from Okla-

homa to Indiana refinery, increases capacity by 42,000 barrels products daily.

Sunray Oil Corporation completed 12 miles of 4-inch from the Albright pool to Holdenville.

Sunray Oil Corporation completed 83 miles of 8-inch products line from the Allen refinery to Drumright terminal, connecting to Great Lakes Pipe Line Company. Approximate capacity: 30,000 barrels daily. Wilcox Oil & Gas Company has interest in last 16 miles.

Sunray Oil Corporation completed 94 miles of 6-inch products line from the Allen refinery to Duncan refinery via Velma, carrying 20,000 barrels daily. Pipe Line Service Company, Seminole, Okla., contractor.

Sunray Oil Corporation completed a 17-mile, 6-inch crude line from Velma field to Duncan refinery at Beckett, and is extending the line 79 miles to Allen refinery from Velma. Capacity, 20,000 barrels. Pipe Line Service Company, contractor.

Sunray Oil Corporation will construct a 17 mile, 8-inch crude line from The Texas Company's Velma station to Duncan refinery, carrying 25,000 barrels a day.

The Texas Company is constructing 23 miles of 8-inch crude line from Antioch pool, Garvin County, to Velma, Stephens County. C. L. Rogers Construction Company, Wichita Falls, Texas, contractor.

Warren Petroleum Corporation was preparing to construct 64 miles of 2-30-inch gathering system in the Antioch pool. Holland Construction Company, contractor.

Warren Petroleum Company is planning to lay approximately 200 miles of gas and products lines 2-30-inch from the Garvin-McClain area to gasoline plant under construction at Mayesville.

Pennsylvania

Manufacturers Light & Heat Company completed 54 miles of 20-inch gas line from a TGT connection at West Virginia-Pennsylvania state line to Pittsburgh. Capacity: 84 million cubic feet daily.

Manufacturers Light & Heat Company, is constructing 130 miles 14-inch gas line from Coatsville to Port Jervis, N. Y. Williams Brothers, Tulsa, contractor.

Manufacturers Light & Heat Company has been authorized to construct 3 1/5 miles of 20-inch line near Groveton, Allegheny County.

Manufacturers Light & Heat Company proposes construction of 7 1/2 miles of 14-inch line to various connection points with TGT.

New York State Natural Gas Corporation has been authorized to construct 1 1/10 miles 20-inch connecting line to TGT, in Greene County.

New York State Natural Gas Corporation has authority to construct 70 miles of 12 1/4-inch, 50 miles of 14-inch loops, and 14 miles of 16-inch transmission lines in 1947; also 59 miles of loops in 1948.

United Natural Gas Company was completing 72 miles 20-inch extension from Beaver County to TGT connection in Greene County. Williams Brothers Corporation, Tulsa, contractor.

United Natural Gas Company completed 16 miles of gas line between Lamont and Lewis Run.

South Dakota

Socony-Vacuum Oil Company proposes to build 235 miles of 6-inch products line between Sioux Falls and Fargo, N. D.

Tennessee

Alabama-Tennessee Natural Gas Company has applied to FPC for permission to build 66 miles of 10-inch extension from its lines to Muscle Shoals, Ala.

Alabama-Tennessee Natural Gas Company filed an application late in 1947 with FPC to construct 75 miles of 12 1/4-inch line from TGT connection near Middleton to Tuscumbia, Ala., a 35-mile, 8 1/2-inch extension from there to Decatur, a 26-mile 6 1/2-inch extension from there to Huntsville.

East Tennessee Natural Gas Lines obtained preliminary FPC approval to construct 186 miles of 16-inch, 112 miles of 12 1/4-inch lines from TGT connection near Nashville to Chattanooga, from there to Knoxville; plus 150 miles of 3-8-inch laterals. Contract has been awarded N. A. Saigh Company, San Antonio.

Mid-East Tennessee Natural Gas Company has applied to FPC for permission to lay 106-mile trunk line from Southern Natural Gas Company's proposed facilities near Chattanooga to Knoxville.

East Texas

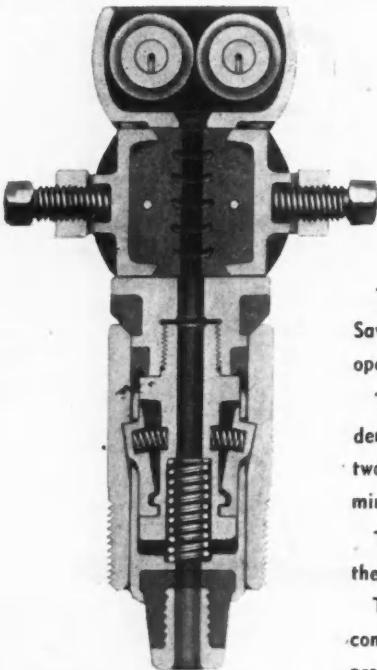
Humble Pipe Line Company completed 43 miles of 6-inch crude line from Longview terminal to Pittsburg field, Camp County, with connections to Picton, Winnsboro, and New Hope fields, carrying 10,000 barrels daily; also a connection into the East Mount Sylvan field, Smith County, to take the 160-barrel daily allowable.

Humble Pipe Line Company completed 5 miles of 10-inch loop from Gladewater toward Hawkins on East Texas field terminal line; capacity booster to 55,000 barrels daily. Wood Engineering & Construction Company, Tyler, Texas, contractor.

Lone Star Gas Company completed a 9-mile, 10-inch lateral from Carthage field gasoline plant to United Gas's Longview-Carthage line, also completed in 1947.

Magnolia Pipe Line Company is constructing a 647-mile, 20-inch crude carrier from Corsicana to Patoka, Ill. The line connects with company's Midland-Corsicana line, now being looped. New carrier to carry 100,000 barrels daily. Completion scheduled in spring of 1948. Oklahoma Contracting Company, Dallas; H. C. Price Company,

For Swabbing Operations



TYPE 3AR AUTOMATIC RELEASE WIRE LINE STRIPPER

Type 3AR King Wire Line Stripper (often called "Oil Saver") is the ideal tool to use in connection with swabbing operations.

The positive latch and sure release insure against accidents and eliminate the possibility of jerking a wire line in two. The non-sparking materials used in its construction, minimize the fire hazard.

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holds contribute to easy handling of the tool. This tool is constantly coming into greater use. A trial is convincing.

FOR WIRE LINE CORING the 4AR KING WIRE LINE STRIPPER is widely used

The Type 4AR Stripper is similar to the Type 3AR, except it is a little larger. It is commonly used in connection with the Type 4C King Circulating Head. It can be, and sometimes is used with other makes of circulating heads.

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Bartlesville; Eastern Construction Company, Dallas, contractors. Memphis Natural Gas Company sent a new application to FPC in late 1947 for 1016-mile, 24-inch gas line from East Texas to Pittsburgh; 669 miles to Louisville to be constructed in 1949, 290 miles to Carlisle, Ohio, in 1950, extension to Pittsburgh in 1951.

Pan American Pipe Line Company finished 29 miles of 6-inch line completely replacing the system acquired from Central Pipe Line Company in 1946. Wood Engineering and Construction Company, Tyler, contractor.

Talco Pipe Line Company has completed 2 miles of 4-inch discharge line from Normal-Paul field to Merigale field.

Texas Eastern Transmission Corporation purchased the Big and Little Inch lines for \$143,127,000 and converted them for gas transportation to the Atlantic Coast, under proviso that the lines be maintained for emergency reconversion to oil. The company asked FPC authorization to construct 66 miles of laterals connecting its systems in the Philadelphia and New Jersey areas.

and 24 compressor stations with aggregate of 122,000 hp. Later, 4 compressor stations were authorized, with a total of 28,000 hp, to increase delivery capacity of the lines from 140 million to 250 million cubic feet daily; then 6 more stations, upping ultimate capacity to 340 million by August 1, 1948. Some station work is underway. Future construction includes 66-mile line from Little Inch terminus at Texas City to Pledger gas field, Brazoria County, Texas Gulf Coast; a line to connect Hico-Knowles gas field with Little Inch in Lincoln Parish, La., branch lines in Philadelphia area, to which the company won permission to extend its lines, and 21 new compressor stations with a total of 153,000 hp.

Tennessee Gas Transmission Corporation will complete early in 1948 a 73-mile, 20-inch line from the Carthage gas field to trunk line near Natchitoches, La. Capacity, 100 million gas daily. Latex Construction Company, Houston, contractor.

Trans-Continental Gas Pipe Line Company, Inc. filed a second amended application

with FPC for construction of 1380 miles of 26-inch transmission line from Hemphill, Sabine County, to New York area in 1949-50. Triangle Pipe Line Company is constructing 40 miles of 8-inch products line from Carthage to Shreveport, La., to connect with El Dorado, Ark., system. The line will carry an estimated 20,000 barrels daily. Sheppard-Geiger Construction Company, contractor.

United Gas Pipe Line Company completed 33 miles of 20-inch gas line from Carthage field to Longview station of the TET Big Inch line. Brown & Root, Houston, contractor.

North Texas

Continental Pipe Line Company completed a 14-mile, 4-inch gathering system in the Hildreth and Lewis-Stuart fields, Montague County, carrying 4000 barrels of crude to Magnolia's trunk line.

Continental Pipe Line Company completed 8 miles of 4- and 3-inch extension line from Ewalt field, Throckmorton County, to Szygold field.

Highlander Gasoline Company completed 9 miles 6-inch extension of gas gathering system, obtaining 1½ million cubic feet of residue gas daily from Continental Oil's plant in Hildreth field.

Lone Star Gas Company constructed a 20-mile, 10-inch extension of system from Breckenridge to Kendall and adjacent areas, Young County.

Shamrock Oil & Gas Corporation completed 4½ miles of 20-inch gas residue, 6 miles of 6-inch gas line in gathering system near Dumas plant. Vaughn & Taylor Construction Company, Wichita Falls, Texas, contractor.

Sinclair Refining Company, Pipe Line Department, completed 1 mile of 3-inch, removal of 3/5 mile of 3-inch gasoline lines, near Dallas. Vaughn & Taylor contractor.

Sinclair Refining Company prepared to begin work on 180 miles of 8-inch products line from Arlington, between Dallas and Fort Worth to Shawnee, Okla., the Panova station near Pauls Valley. Scheduled completion date, summer 1948. Line connects from North Texas terminal of Gulf Coast-South Texas system now under construction. May later be carried to Columbus, Ohio. Pacific Pipeline & Engineers, Ltd., Los Angeles, contractor.

The Texas Pipe Line Company completed replacement of 2-3-4-inch lines with 4 miles of 6-inch, 7½ miles of 4-inch.

Toronto Pipe Line Company completed 8 miles of 4-inch crude gathering system from Lawson and Humphrey-Chapman fields, Haskell County, to a loading rack at Haskell.

Southwest Texas

Houston Industrial Gas Company is constructing a 37-mile, 10-inch line from Yoakum field to El Tora. C. W. Sternberg, Houston, contractor.

Magnolia Pipe Line Company is laying 10 miles of 8-inch line in the Edna area. Altgilt Construction Company, Corpus Christi, contractor.

Pan American Pipe Line Company completed a crude gathering system in Drifts, Pettus, S. Caesar, N. Pettus and Tulista fields, consisting of 24¾ miles of 4-6-inch pipe.

Reynosa Pipe Line Company completed 17 miles of 12-inch gas line to connect with 135 miles of 14-inch line laid by Gas Industrial de Monterrey, S. A. The U. S. section of the line originates in South Weslaco field, Hidalgo County, and runs to a point east of Reynosa on the Rio Grande. Capacity, 40 million cubic feet daily. O. C. Whitaker Company, Fort Worth, contractor.

Rio Grande Valley Gas Company completed a 43½-mile, 10-inch loop on its 12-inch trunk line from San Salvador to San Benito.

Sinclair Refining Company completed 190 miles of 8-inch, 82 miles of 6-inch, 53 miles of 6-inch from Corpus Christi to Austin, Austin to Bryan, and a lateral from the Corpus-Austin line to San Antonio, starting near Luling. At Bryan the system ties into the products carrier being built to Arlington from Houston. H. C. Price Company, Bartlesville, Okla., and O. C. Whitaker Company, Fort Worth, contractors.

Tennessee Gas Transmission Company completed extension of its main line to the San Salvador gas field, Hidalgo County, from a point in Nueces County; 95 miles of 16-inch, carrying 96 million cubic feet of gas daily. Associated Contractors and Engineers, Houston, contractor.

Tennessee Gas Transmission Company is constructing 400 miles of 26-inch, 10 miles of 24-inch loops on its Texas-West Virginia system, and has completed 3 compressor stations at Fostoria, Victoria, and Natchitoches, La.

Tennessee Gas Transmission Company re-

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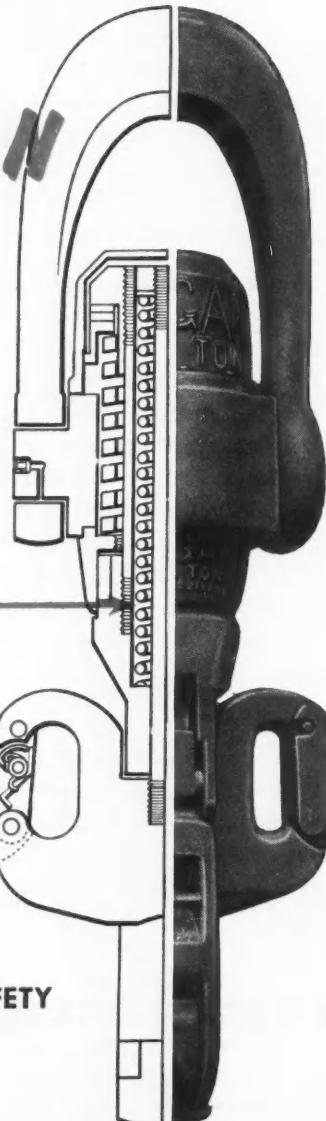
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✓ **FORGED**—All the load-carrying elements are of forged, heat-treated alloy steel with 4-to-1 Safety Factor.

✓ **MAIN STEM**—The rugged alloy steel tubular main hook stem is properly designed to resist tension, bending and torsion loads.

✓ **ELEVATOR YOKE**—The elevator yoke is locked into the main hook body and when in use transfers the load directly to the main hook bight.



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ceived FPC approval of Application 808 to complete looping of its second Texas-West Virginia 26-inch line approximating 552 miles of 26-inch line, 69 miles of 24-inch, and 82 miles of 20-inch loop, as well as a line from the Carthage field, East Texas to the new Natchitoches, La., compressor station. Increased capacity of 290 million cubic feet will be obtained. The following 26-inch loops were designated: from point east of Station 5, Winn Parish, La., 81 3/5 miles to point north of Monroe; 26 miles from point in Tallahatchie County, Miss., to Batesville; 31 miles from point in Lafayette County to Benton County, Miss.; 36 miles from point in Decatur County, Tenn., to Loberville; 92 3/10 miles from point in Barren County, Ky., to point in Garrard County. The 24-inch loop will be laid from point in Menifee County, Ky., 68 7/10 miles to Burnaugh. From Burnaugh to point northeast of Charleston, W. Va., 82 4/5 miles of 20-inch will be laid. Since both Application 701 and 808 were granted within a short time of each other, the two looping programs have been carried on simultaneously. Approximately 340 miles of 26-inch line, no 24-inch, were laid by the end of 1947.

Tennessee Gas Transmission Company applied to FPC for permission to extend its lines into New England, and lay a third loop. The application specified 5 new compressor stations and additional compressor units in existing stations; approximately 770 miles of 30-inch main loop; 124 miles of 26-inch loop along existing lines between Corpus Christi, Texas, and Burnaugh, Ky.; an extension of approximately 170 miles of 26-inch, 480 miles of 24-inch, and 140 miles of 20-inch from Burnaugh to point near Boston, Mass.; a 65-mile, 16-inch spur from a point in Ohio to point near Pittsburgh; various lateral gathering lines and facilities. This third program will increase capacity by 455 million cubic feet to 1,055,000,000 total.

Transcontinental Pipe Line Company has application before FPC for construction of 1839 miles of 26-inch gas line from Lacy and McAllen fields, Cameron and Hidalgo counties, to New York and Brooklyn via Satsuma, Baton Rouge, Atlanta, with Baltimore, Philadelphia and New Jersey laterals. Construction was proposed for 1949, completion in 1951. Two other parallel lines are planned later. Estimated capacity, 375 million cubic feet daily.

Texas Panhandle

El Paso Natural Gas Company completed 251 miles of 24-inch gas line from the Panhandle gas field to connect with the 26-inch line at Eunice, N. M., from which point the line continues to a 30-inch connection at Blythe, Calif., and terminates at Los Angeles. Capacity of line, 125 million cubic feet daily.

Michigan-Wisconsin Pipe Line Company has started construction on 810 miles of 24-inch gas line, 360 miles of 22-inch, and 11 miles of 18-inch, with 310 miles of 14-2-inch laterals, from Panhandle gas field, Hansford County, to Austin storage field, Mecosta County, Mich., and Green Bay, Wis. Capacity, 325 million cubic feet per day. Construction includes 14 compressor stations totaling 123,600 hp. Austin Field Pipe Line Company constructing line to take gas on to Detroit area. J. R. Horrigan Construction Company, Houston, contractor for first 225 miles. Scheduled completion date, April, 1950.

Panhandle Eastern Pipe Line Company is still working on its looping program authorized early in 1947, including 391 miles of 18-26-inch loops, 5 lateral lines to Michigan crossings, a compressor station in Hansford County, Texas, and other stations, in Texas, Michigan, Kansas, Missouri, Illinois, and Indiana. Capacity would be increased 80 million cubic feet. Of the "B" Facilities, 356 4/5 miles of 26-inch line have not been laid, or contracts awarded for construction. Only work completed was 50 miles of 18-inch line from Shamrock Oil and Gas Company's plant, Moore County to Hansford compressor station; also 24 miles of 26-inch loop from Tuscola station along present loop lines.

Panhandle Eastern Pipe Line Company was given FPC approval on its "C" Facilities involving 355 miles of 26-inch loops, and 31,600 compressor horsepower additions to existing stations. Capacity will increase by 107 million cubic feet per day, to a total of 580 million cubic feet.

Phillips Petroleum Company completed 7 of the thirteen 8-inch loops authorized during 1946 on its Borger-Wichita, Kansas-Chicago products system. The following

loops were completed: 10 1/2 miles from Borger, 7 miles from Spearman, 6 4/5 miles from Darrouzett, 7 3/10 from Cassoday, Kansas, 9 miles from Madison, 8 7/10 miles from Sharpe, 7 1/10 miles from Richmond. To be completed early in 1948 were 9 3/10 miles from Laverne, Okla., 8 4/5 miles from Buffalo, 8 1/10 miles from Hardtner, Kansas, 7 4/5 miles from Medicine Lodge, 8 miles from Cheney. Vaughn & Taylor and Deaton & Sons, contractors.

Phillips Petroleum Company has completed only 167 miles from Borger to La Junta of its projected 365-mile, 6-inch products carrier to Denver, because of lack of pipe. H. C. Liles Construction Company, Oklahoma City, contractor for this spread. Albert Johnson Construction Company, Oklahoma City, is completing 37 miles from Borger to McKee, including 1 1/2-mile river crossing.

Texoma Natural Gas Company completed 25 4/5 miles of 26-inch loop, from a point 25 4/5 miles from northern terminus of line, to Natural Gas Pipeline Company of

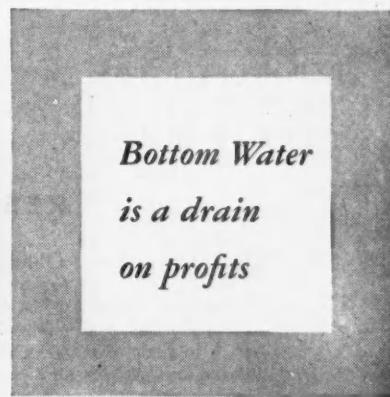
America's Station 2 in Oklahoma Panhandle. R. H. Fulton & Company, Lubbock, Texas, contractor.

Texoma Natural Gas Company has awarded contract for 10 3/5 miles of 26-inch loop, from a point 35 1/5 miles south of Natural Gas Pipeline's Station 2 to south end of 26-inch loop constructed in 1947. R. H. Fulton & Company, contractor.

Upper Texas Gulf Coast

Dow Chemical Company is constructing 18 miles of 4-inch, 24 miles of 12-inch gas lines from Citrus Grove field to Dow's plant at Freeport. Job includes 1500-foot 14-inch Colorado River crossing. Latex Construction Company, Houston, contractor.

Gulf Refining Company, Houston Pipe Line Division started late in 1947 loops on its Lufkin to Port Arthur refinery system: 11 miles of 10-inch from Lucas to Port Arthur; 9 1/10 miles of 8-inch from Lufkin to Chester; 14 2/5 miles of 10-inch from Sour Lake to Port Arthur. Latex Construction Company, contractor. These are in addi-



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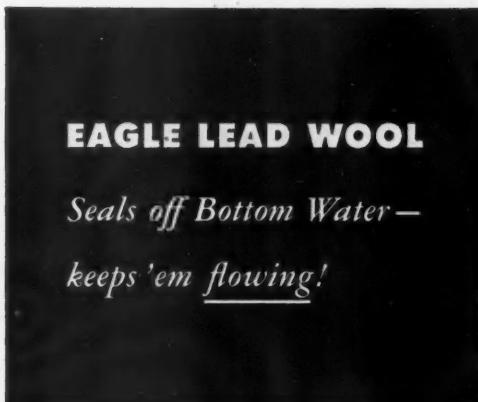
To insure an uninterrupted flow of oil from your wells, banish bottom water with economical Eagle Lead Wool. This finely stranded metallic wool, tamped around the hole, effectively seals every crack, becomes a permanent, non-corrosive plug. Packed in convenient 50-pound sacks—easy to place in special cartridge-shaped Eagle Wire Containers sized to fit all casings.

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tion to looping program under way from Midland, Texas, to Lufkin.

Humble Oil & Refining Company completed 31 miles of 3-inch, 8 miles of 8-inch distillate carrier from Anahuac to Baytown and Webster to Baytown. J. R. Stewart Construction Company, Houston, contractor.

Humble Oil & Refining Company completed 8 miles of 8-inch crude line between Webster station, Harris County, and the Baytown refinery.

Humble Oil & Refining Company completed 40 miles of 20-inch crude carrier from Satsuma station, Harris County, to the Baytown refinery. This is largest crude line in Gulf Coast region. Capacity 150,000 barrels daily; can handle 233,000 barrels. Increased facilities at Satsuma and Baytown involved laying of 1 mile 26-inch, 3 miles 16-inch line to replace 12- and 8-inch lines. Latex Construction Company, Houston, contractor.

Humble Oil & Refining Company relaid 15 7/10 miles of 4-inch line after removing 22 7/10 miles of 4-inch between Navarro Crossing and Long Lake. Smith Contracting Company, Ft. Worth, contractor.

McCarthy Oil & Gas Corporation prepared to construct 22 miles of 12 1/4-inch, 23 miles of 14-inch, 20 miles of 16-inch, 10 miles of 20-inch from Jackson Pasture field to Winnie plant, from there to Orange. Total capacity of lines, 100 million cubic feet. Anderson Brothers Corporation, Houston, contractor.

The Ohio Oil Company completed 11 miles of 6-inch line connecting the Orange Hill field, Austin County, to TGT near Wallis. Not yet completed is a 7 1/2-mile outlet for the Nada field, Colorado County, which is to connect with TGT's 24-inch line between Nada and El Campo.

Shell Pipe Line Corporation completed 100 miles of 6-inch products line from Sheridan field natural gasoline plant to the Deer Park refinery, near Houston. Capacity 8700 barrels, but normal throughput 3000-4000. Line is operated as common carrier.

Sinclair Refining Company is constructing 260 miles of 10-inch products line from Houston to Arlington, between Fort Worth and Dallas, via Bryan, where system connects to lines from Southwest Texas. Contract has been awarded to continue system out of Arlington, North Texas, to Oklahoma,

later to Ohio, where it will connect with the recently extended lines in Indiana and the Atlantic Coast. H. C. Price Company, Bartlesville, contractor.

Superior Oil Company completed a gas gathering system in the Altair field, Colorado County, and a 70-mile, 8-inch line from the field to the Lake Creek absorption plant. Latex Construction Company, Houston, contractor.

The Texas Pipe Line Company is planning to construct an 80-mile, 22-inch crude line from Houston to the Port Neches refinery, with capacity of 160,000 barrels. Project, originally including a 60-mile, 16-inch line, no longer under consideration, delayed during 1947 by pipe shortage. Construction scheduled in spring of 1948.

Magnolia Pipe Line Company and **The Texas Pipe Line Company** are constructing a products system. Magnolia's line from Spindletop, near Beaumont to Hearne, 178 miles of 12-inch, is completed. Smith Contracting Company, Fort Worth, contractor. The line is linked by feeders from refineries at Port Arthur and Beaumont. The Texas Pipe Line Company is constructing 172 miles of 10 1/4-inch line from Hearne to Dallas, 26 miles of 8 1/2-inch from Dallas to Fort Worth, and extensions of 79 miles of 8-inch from Hearne to Austin, 28 miles of 6-inch from Austin to San Marcos, where it connects with an existing 6-inch carrier that takes products into San Antonio. Associated Contractors & Engineers, Houston; Latex Construction Company, Houston, contractors.

Trunkline Gas Supply Company has not yet received FPC approval of its plan to construct an 885-mile, 30-inch line from Wharton County to Keokuk County, Iowa, carrying 425 million cubic feet of gas.

United Gas Pipe Line Company completed a gathering system in Segno field, Polk County.

West Texas

Arizona Pipe Line Company is still considering plans to transport 14,000 barrels of Permian Basin crude to a proposed refinery at Phoenix. The carrier would be 620 miles of 8-inch with 4 stations on line, but construction is not likely until 1951.

Atlantic Pipe Line Company boosted capacity of its 10-inch crude carrier between Midland and Atreco by 5000 barrels through additions to its compressor units.

Col-Tex Refining Company completed 5 miles of 6-inch crude line, replacing old 3- and 4-inch pipe from its plant near Colorado City to the Westbrook field.

El Paso Natural Gas Company completed 36 miles of 14-inch natural gas line from a gasoline plant in the Fullerton field, Andrews County, to its plant near Eunice, N. M., where it will enter the system now serving California.

El Paso Natural Gas Company completed 18 1/2 miles of 16-inch duplicate line from the TXL-Wheeler field to Keystone station, Winkler County, and 13 miles of 14-inch line from the station to the Jal, N. M. plant.

Empire Southern Gas Company was preparing to lay 10 miles of 8 1/2-inch pipe from Shafter Lake field, Andrews County, to El Paso's Fullerton field station. Capacity, 10 million cubic feet.

Frio Pipe Line Company completed a 50-mile, 6-inch gas line westward from the Pearsall pool to Texas Gas Utilities Company line carrying approximately 5 million cubic feet daily.

Gulf Refining Company, Houston Pipe Line Division completed an extension of its West Texas system by 12 miles of 6-inch line from the Jordan-Ellenburger field, Ector County, to an Ellenburger discovery, Crane County.

Gulf Refining Company, Houston Pipe Line Division continued a looping program on its Midland-Lufkin carrier, starting late in 1947, increasing system's capacity by 5000 barrels of crude. Approximately 100 miles of 10-inch loops have been contracted by Smith Contracting Company, Fort Worth. The following loops were completed: 18 1/2 miles from Lufkin to a point west, 10 1/2 miles from Elkhart to Wortham, 5 1/2 miles from Wortham to Grandview, 3 1/2 miles from Grandview to Weatherford. Loops under way or to be completed in 1948 are 10 1/2 miles from Ranger to Clyde, 12 miles from Clyde to Sweetwater, 10 miles from Sweetwater to Coahoma, 11 1/2 miles from Coahoma to Midland.

REPORT TO THE COMPTROLLER OF CURRENCY OF THE CONDITION OF FROST NATIONAL BANK AT THE CLOSE OF BUSINESS WEDNESDAY, DECEMBER 31, 1947.

RESOURCES

CASH	\$ 32,061,664.44
U. S. Government Obligations.....	79,008,800.00
(all carried at par or less)	
Investment Bonds and Municipal Obligations	6,131,690.00
(all carried at par or less)	
Stock in Federal Reserve Bank.....	120,000.00
Loans and Discounts.....	15,884,335.97
Interest Earned but not Collected.....	387,456.06
Customers' Liability Account Letters of Credit	26,920.29
Building Account.....	865,850.66
Other Real Estate Owned.....	1.00
TOTAL	\$ 134,486,718.42

LIABILITIES

Capital Stock	1,200,000.00
Surplus	2,800,000.00
Undivided Profits—Net	594,356.52
Reserve for Undeclared Dividends	96,000.00
Reserve for Taxes, Interest, etc.....	388,952.89
Interest and Discount Collected but not Earned	47,858.37
Liability Account Letters of Credit	51,846.53
DEPOSITS: Commercial	\$78,672,942.63
Correspondent Banks	15,936,721.08
Time	22,407,641.91
Public Funds	8,652,398.73
United States	
Government Deposits	949,386.90
Other Deposits, Certified & Cashier's Checks, etc..	2,688,612.86
TOTAL	\$ 134,486,718.42

FROST NATIONAL BANK OF SAN ANTONIO, TEXAS

Safety . Courtesy . Promptness

MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

Gulf Refining Company, Houston Pipe Line Division completed 6 miles of 6-inch extension from the Rankin station, McCamey County, to a wildcat discovery in Crockett County.

Gulf Refining Company, Houston Pipe Line Division will construct in 1948 4 miles of 3-inch crude line from the Jordan-Ellenburger field to its main line.

Gulf Oil Corporation has awarded contract for construction of 7 miles of 24-26-inch crude line from the Goldsmith pool to O. R. Smith Contracting Company, Fort Worth.

Humble Pipe Line Company completed several loops on its West Texas trunk line; 13-9/10 miles of 10-inch, 35 miles of 12-inch, and replaced 12 miles of 8-inch with 12-inch, boosting system's capacity by 11,000 barrels of crude daily. C. W. Sternberg and Latex Construction Company, both of Houston, contractors.

Humble Pipe Line Company extended its crude gathering system from the Martin field by laying 25 miles of 6-inch to the Andector field, and thence southwest to the Wheeler field, from there 17 miles of 8-inch were laid to Winkler station, and a lateral 4 miles of 4-inch to Keystone Ellenburger production. Some 8-inch line was relaid.

Humble Oil & Refining Company completed 12-4/5 miles of 6-inch, 5-1/5 miles of 6-inch, 12 miles of 6-inch crude lines between Albany, Shackelford County, and Putnam, Callahan County. The line was rerouted and shortened.

Humble Oil & Refining Company laid 8 miles of 8-inch discharge line from a wildcat discovery in Ector County to its Wink-McCamey system.

Humble Oil & Refining Company took up 22-7/10 miles of 4-inch line and relaid 15-7/10 miles of 4-inch between Navarro Crossing and Long Lake. Smith Contracting Company, Fort Worth, contractor.

Humble Oil & Refining Company completed laying 10-4/5 miles of 8-inch line from Ector station to Judkins station. J. J. Willis Company, Odessa, Texas, contractor.

Humble Oil & Refining Company started construction January 1, 1948, of 10½ miles of 8-inch line from Dollar Hide field, Andrews County, to Dublin station, connecting with the Hobbs-Winkler main line. Morrison Brothers Construction Company, Odessa, Texas, contractor.

Humble Pipe Line Company completed 2½ miles of 6-inch gathering lines in the Doss field and laid a 6½-mile, 4-inch line from there to Seminole. Curtis Brothers Construction Company, Andrews, Texas, contractor.

Magnolia Pipe Line Company completed a crude gathering system in Northwest Slaughter field, consisting of 6 miles of 4-inch discharge line, 21 miles of 2-6-inch gathering lines. R. H. Fulton & Company, Lubbock, Texas, contractor.

Magnolia Pipe Line Company completed 17 miles of 8-inch extension line from Fullerton field to Nelson field, Andrews County, extending from there 6 miles of 4-inch to Eunice. N. M. R. H. Fulton & Company, contractor.

Magnolia Pipe Line Company installed several 12-inch loops on its 12-inch Midland-Corsicana transmission line, boosting capacity from 65,000 to 80,000 barrels of crude per day. At Corsicana the line connects with the carrier now being constructed to Patoka, Ill. Loops completed were 22-1/10 miles west from Mertens station, 16½ miles west from Walnut Springs station, 30 miles west from De Leon station, 16-1/10 miles west from Sweetwater station, 13-4/5 miles west from Iatan station, Oklahoma Contracting Company, Dallas, contractor.

Mextex Pipe Line Company (Phillips Petroleum Company) increased capacity of its 8-inch products and crude carrier from West Texas to the Borger refinery to 25,000 barrels per day by installation of booster stations near Fullerton and Olton fields.

Mextex Gathering Lines (Phillips Petroleum Company) completed a 4-inch crude gathering system in Fullerton and Fullerton-Devonian fields, and laid a 6-mile, 6-inch dis-

charge line from the field station to its trunk line.

Midway Pipe Line Company (Consumers Cooperation Association) still was considering construction of 625-mile, 8-inch crude carrier from the Permian Basin to Valley Center, Kansas.

Pasotex Pipe Line Company (Standard Oil Company of California) completed 98 miles of 10½-inch crude line from Wink station to Yates field. Smith Contracting Company, Fort Worth, contractor. Company also increased capacity of its 195-mile, 8-inch crude carrier from Wink to El Paso by 5000 barrels daily after installing 4 additional booster stations.

Phillips Petroleum Company completed 55 miles of gathering lines in the Fullerton field. Vaughn & Taylor Construction Company, Wichita Falls, Texas, contractor.

Phillips Petroleum Company is laying 6 miles

for a gas gathering system in Goldsmith area. Smith Contracting Company, Fort Worth, contractor.

Seurlock Oil Company completed a 26-mile, 6-inch crude line from Jameson field, Coke County, to a loading rack near Colorado City.

Shell Oil Company completed three 4-inch products lines from TXL gasoline plant, Ector County, to a loading rack near Judkins. Distance, 15 miles.

Shell Pipe Line Corporation constructed 6 miles of 4-inch crude gathering and discharge line from Page area to McCamey Houston trunk line. The unit replaces a 2-inch connecting line of Cooper Gas Company.

Shell Pipe Line Corporation is constructing 9½ miles of 8-inch crude line to its West Texas trunk system at the Upton station



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You never hear of a "black market" or a "gray market" when prices on any commodity are in balance with demand.

But, when prices are held down in the face of over-demand, the unscrupulous speculator, by hook or crook, manages to buy at the legitimate market and sell for all the traffic will bear.

This is true whether prices are held down by Government regulation (which breeds "black markets") or by voluntary action on the part of producers (which breeds "gray markets").

Voluntarily, the steel industry has held down advances in the price of steel. Compared to virtually all other commodities, price advances in the last ten years on steel at the mills are extremely modest. Yet, costs of steel making have soared far above normal and the demand continues beyond our vastly increased steel producing capacity.

Were steel prices to advance 2¢ more per pound in line with advances in the prices of most other commodities, the "gray market" in steel would vanish.

Sheffield prefers to fight the "gray market" and inflation—

- 1st—By making more steel products than ever before in Sheffield history.
- 2nd—By distributing them through regular established and reputable distributors and dealers.
- 3rd—By asking all of our customers not to resell at more than regular market prices.
- 4th—By imploring all users of steel products not to pay more than regular market prices.

Steel Is Cheap. Let's all fight to keep it so.

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SALES OFFICES: Chicago, Ill.; St. Louis, Mo.; Des Moines, Ia.; Omaha, Nebr.; Wichita, Kans.; Denver, Colo.; Oklahoma City, Okla.; Dallas, Tex.; San Antonio, Tex.; Lubbock, Tex.; New Orleans, La.; Shreveport, La.

from a deep Ellenburger discovery in Upton County. Morrison Brothers Construction Company, Odessa, contractor.

Shell Oil Company, Inc. heads a group of companies considering plans for a 20-inch crude carrier from the West Texas Permian Basin to California, terminating near the Wilmington refineries. Approximately 150,000 barrels would be transported daily if plans materialize. Mileage involved, approximately 1100.

Standish Pipe Line Company (Phillips Petroleum Company) has not yet been able to begin construction of its projected 289-mile, 12-inch crude outlet from the Permian Basin to the Borger refinery.

Standish Pipe Line Company completed a short loop, near the junction of its present 6- and 8-inch carrier from the Permian Basin to Borger. More loops will be installed when pipe is available.

Standish Pipe Line Company completed 7 miles of 4-inch gathering lines in the TXL field and 8 miles of 6-inch discharge from Goldsmith field station to the TXL trunk line.

Stanolind Pipe Line Company failed to construct 80 miles of 16-inch extension of its trunk line from Wasson field via Fullerton to Wheeler for lack of pipe. What pipe is available has been required for the current looping program. This line may be built in summer of 1948.

Stanolind Pipe Line Company completed a 12-mile, 2½-inch crude outlet for the Landon field, Cochran County, to connect with Magnolia's system. When 80-mile extension is constructed this line will be tied in.

Stanolind Pipe Line Company completed 10 miles of gathering and a 6-inch discharge line from Adair field to the Texas-New Mexico Pipe Line Company's carrier.

Stanolind Pipe Line Company completed a 70-mile, 8-inch extension of its West Texas-Oklahoma carrier from the Slaughter field west to the Cap Rock field, N. M. Smith Contracting Company, Fort Worth, contractor.

Stanolind Pipe Line Company was ready to lay 10 miles of 6-inch and 16 miles of 4-inch crude gathering lines in the Leveefield, Hockley County, C. L. Rogers Construction Company, Wichita Falls, contractor.

Stanolind Pipe Line Company continued looping of the Slaughter-Drumright trunk line, increasing crude system capacity by 14,000 barrels per day. A loop from Monroe to Post, North Texas, 49-miles of 8-inch, was completed in 1947, by R. H. Fulton & Company, contractor, who is also working on the Monroe-Floydada loop, 46 miles of 16-inch, later in program to be extended 57-3/5 miles to Childress. Loops starting in February: 5 miles of 16-inch from Breth, Okla., station, 14 miles of 16-inch, near El Reno, 15½ miles near Drumright. The Breth loop will be extended in summer 42½ miles, El Reno 38-3/10 miles, Drumright 37-4/5 miles.

Stanolind Pipe Line Company completed a 50-mile, 8-inch outlet from Post field, Garza County, to the main line near Petersberg. R. H. Fulton & Company, contractor.

Stanolind Oil & Gas Company awarded contract for 320 miles of various-sized pipe as gas gathering system for Slaughter field's Sundown station to Deaton & Sons Pipe Line Construction Company, Odessa.

Western Refiners Corporation was preparing to construct a gathering system in Tunstall field, Reeves County, with a line from the field to Orla, where loading rack will be constructed.

Utah

Mountain Fuel Supply Company is planning to construct a 35-mile gas line from its main line junction to Orem, Provo, Springville, Lincoln and Spanish Fork in spring of 1948.

West Virginia

Atlantic Seaboard Corporation and Virginia Gas Transmission Corporation asked FPC approval to construct 268 miles of 26-inch line from United Gas' Cobb station, near Glendenin, to Rockville, Md., to serve Washington Gas & Light Company.

Carbide and Carbon Chemicals Corporation was constructing 55 miles of 10-inch gas line from Charleston south to Shegon. Pacific Pipeline & Engineers, Ltd., Los Angeles, contractor.

Cumberland & Allegheny Gas Company applied to FPC to construct 7 miles of 6-inch gas line between Terra Alto and Oakland, Md.

Hope Natural Gas Company plans to lay 31 miles of 16-inch loop authorized by FPC, build a booster station, and install additional compressor units at the Cornwell station. FPC also approved construction of 58 miles of 20-inch loops on lines out of Wyoming gas field. The company has applied to FPC for authority to construct 26 miles of 14-inch loop line to complete the looping of its 90-mile line from Cornwell to Hasting station.

United Fuel Gas Company and Ohio Fuel Gas Company have application before FPC for 100 miles of 20-inch from TGT's line near Ceredo, W. Va., to Burlington, Fairfield County, Ohio.

United Fuel Gas Company was authorized to construct 70 miles of 20-inch line from Cobb station, Roane County, to Monongalia County connection with Manufacturers Light and Heat Company.

United Fuel Gas Company has asked FPC permission to build 50 miles of 16-inch lines in Kanawha and Wetzel counties.

Wisconsin

Wisconsin Southern Gas Company has filed an application with FPC to construct 5 miles of 6-inch line from connection with Natural Gas Pipe Line Company line to line from Pleasant Prairie, Kenosha County, to Genoa City, Walworth County.

Wyoming

The California Company is preparing to lay a 24-mile, 6-inch crude outlet from the Quealy Dome field to connect with Utah Oil Refining's line at Rock River.

The Ohio Oil Company, Pipe Line Department, completed a 13-mile, 8-inch crude line from Hidden Dome field to Durkee siding on Burlington Railroad.

The Ohio Oil Company, Pipe Line Department, laid 13 miles of 6-inch line from Nelber Dome field to the Chatham tank farm, also 7 miles of 12-inch line from Chatham to Stanolind's tankage at Kirby.

The Ohio Oil Company, Pipe Line Department, laid 1½ miles of 8-inch tying into the Chatham-Greybull line from Durkee siding.

Powder River Pipe Line Company plans to construct in 1948 a 13-mile, 6-inch crude line from the Mush Creek field to Graco Oil Refining Company's refinery at Newcastle.

Rocky Mountain Gas Company is constructing 54 miles of 8½-inch gas line from Rawlins to Medicine Bow. Dawson & Corbett, Rawlins, contractor.

Rocky Mountain Pipe Line Company plans in 1947 included laying of 118 miles of 10-inch line from Horse Creek station north of Cheyenne to Denver, and looping with 8-inch pipe part of the line from the Guernsey station to Horse Creek.

Stanolind Pipe Line Company completed 12 miles of 8-inch crude outlet for the Hamilton Dome, Hot Springs County, field to connect with company's Elk Basin system.

Stanolind Pipe Line Company may build in 1948 a 70-mile, 12-inch loop on the line from Lysite to Casper. Pipe deliveries, delayed in 1947, scheduled for early 1948.

Stanolind Pipe Line Company may also construct a 130-mile 8-inch line from Wamsutter to Casper. Project dependent on pipe delivery, as are loops on line from Casper to Freeman, Mo.

Wyco Pipe Line Company is constructing a 271-mile, 8-inch products line from Casper to Denver via Cheyenne. Allred-Enix Construction Company, Houston, has completed a 40-mile spread from Casper to Chuckwater. Pacific Pipe Line & Engineers, Los Angeles, constructing southern half.

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Pipe Line Activity in 1948

Alabama

Alabama-Tennessee Natural Gas Company has an application before FPC for authorization to construct 35 miles of 8-inch gas extension line from Tuscaloosa to Decatur, Ill.

Southern Natural Gas Company completed 70 miles of 24-inch loop gas lines in Eastern Alabama and Georgia.

Southern Natural Gas Company completed 35 miles of 24-inch gas line loop near Birmingham.

United Gas Pipe Line Company laid 59 miles of 16-inch gas lines from Mobile, Ala., to Pensacola, Fla. B & M Construction Company, Oklahoma City, contractors.

Arizona

El Paso Natural Gas Company completed 5 miles of 4½-inch gas line from Tucson City gate station 2 to its 26-inch trunk line.

El Paso Natural Gas Company completed 20 miles of 8-inch gas line from its 26-inch main line to Phoenix.

El Paso Natural Gas Company completed 75 miles of 5-inch gas line from Quartzsite to Yuma.

Arkansas

Arkansas-Louisiana Gas Company completed 11.3 miles of 6-inch gas lines from the Mayfield gasoline plant at Atlanta field to the Columbia gas treating plant, to handle 4 million cubic feet daily. Snelling Company, Shreveport, contractors.

Arkansas-Louisiana Gas Company laid 6 miles of 2½-, 3- and 4-inch gathering lines on the company's gas system in the Village field. Snelling Company, Shreveport, contractors.

Interstate Oil Pipe Line completed 5 miles of 6-inch of coated and wrapped aluminum pipe to handle crude oil from the McKamie field to the Magnolia pumping station. This is the second aluminum experimental line in Arkansas.

California

Pacific Gas and Electric Company completed 22 miles of 20- and 24-inch gas lines from Sunnyvale to Redwood City. Pacific Pipeline and Engineers, Ltd., Los Angeles, contractors.

Pacific Gas and Electric Company completed 2.3 miles of 20-inch and 3 miles of 16-inch gas lines in the Rosedale-Greeley field of San Joaquin Valley. Pacific Pipeline and Engineers, Ltd., Los Angeles, contractors.

Pacific Gas and Electric Company made application to FPC to construct a 510-mile gas line of 30- and 34-inch pipe to extend from an existing pipe line terminal near Milpitas, Santa Clara County, to a point on the Calif.-Ariz. boundary near Topock, Ariz.

Richfield Oil Corporation completed 5 miles of 6-inch crude line in San Joaquin Valley area; 14 miles of 6-inch crude line of war surplus invasion pipe, extending beyond the company's Leutholz lease in the San Joaquin Valley area; 22 miles of 6-inch crude line of war surplus invasion pipe continuing to Cuyama field. Key Contractors, Inc., Santa Fe Springs contractors for 22-mile section; Pacific Pipeline and Engineers, Ltd., Los Angeles, contractors on first section of 6-inch line.

Southern California Gas Company completed 10 miles of 10-inch, 8½ miles of 6-inch, 16¾ miles of 8-inch, and 16¾ miles of 6-inch gas lines in Kings and Tulare Counties. Pacific Pipeline and Engineers, Ltd., Los Angeles, contractors.

Southern California Gas Company completed 40 miles of 8-inch gas line and 36 miles of 6-inch gas line, extending from Blythe to Imperial Valley.

Southern California Gas Company & Southern Counties Gas Company of California completed 18 miles of 30-inch gas line from point near Rivers on El Paso line to Pasadena.

Standard Oil Company of California completed 6 miles of 3-inch products line from the company's refinery to Buena Park. Hood Construction Company, contractors.

Union Oil Company of California completed 20 miles of 8-inch and 10-inch crude oil lines in the Los Angeles Basin, Santa Maria Area and San Joaquin Valley.

Union Oil Company of California completed 10 miles of 6-inch products line from the Torrance to the Rosecrans fields.

Colorado

The California Company completed 60 miles of 4-inch and 20-inch crude oil gathering lines in the Rangely field. L. E. Farley Company, Houston, contractors.

The California Company completed 180 miles of 10-inch crude line from Rangely field to Salt Lake City, Utah.

Cheyenne Light, Fuel and Power Company completed 11 miles of 16-inch gas line on its line from Cheyenne to Denver. The increased line size serves as a gas reservoir to supply gas during severe cold periods.

Colorado-Wyoming Gas Company completed 120 miles of 8-inch gas line from Denver to Cheyenne. Pacific Pipeline and Engineers, Ltd., Los Angeles, contractors.

Rocky Mountain Pipe Line Company completed 30 miles of 8-inch and 118 miles of 10-inch crude lines. The 8-inch line begins 19 miles north of Chugwater, Wyo., and terminates 11 miles south of that city. The larger oil line begins at Denver and ends 25 miles north of Cheyenne. Goldenber & Stolper, Inc., Ponca City, Okla., contractors on the 8-inch line; Osage Construction Company, Winfield, Kansas, contractors on the 10-inch line.

Salt Lake Pipe Line Company completed 168 miles of 10-inch crude lines from Rangely field to Salt Lake City, and 14 miles of 8-inch on same line. Pacific Pipeline and Engineers, Ltd., Los Angeles, contractors.

Standolind Pipe Line Company completed 120 miles of 12-inch crude oil line from Rangely field to Wamsutter, Wyo.

Connecticut

Connecticut Pipe Line Company plans a 42-mile products line from New Haven to Hartford. It is to be 8-inch, and if completed will be the only complete line within the state.

Illinois

Alabama-Tennessee Natural Gas Company has an application before FPC for authorization to construct a 26-mile, 6-inch gas extension line from Decatur to Huntsville.

Chicago District Pipeline Company's application before FPC for 41 miles of 24-inch gas line loops on its Calumet line and through Chicago Heights to South Chicago, was approved.

Egyptian Natural Gas Company made application before FPC to construct 40 miles of 8-inch and 40 miles of 6-inch gas line, extending from a point near Norris City to the vicinity of Centralia and Salem.

Gulf Refining Company, Tulsa Pipe Line Division completed five loops totalling 48 miles of 10-inch crude lines between Centralia and Dublin, Ind. Sheehan Pipe Line Construction Company, Tulsa, contractors for 40 miles, while the T & L Construction Company contracted for the remaining 8 miles.

Illinois Northern Utilities Company has under construction 9 miles of 4-inch natural gas line near Oregon, Ill. To be completed in January, 1949. Midwestern Contractors, Inc., Chicago, contractors.

Magnolia Petroleum Company completed 4 miles of 12-inch loop line for crude oil from Mitchell to East St. Louis. Sheehan Pipe Line Construction Company, contractors.

Natural Gas Pipe Line Company of America completed 14 miles of 26-inch gas line from Crampton to Station 10.

Natural Gas Pipe Line Company of America also completed 54 miles of 24-inch gas line from Station 10 to a point near La Salle.

Natural Gas Pipe Line Company of America completed 14 miles of 26-inch gas line near Geneseo. Midwestern Constructors, Tulsa, contractor.

Natural Gas Pipe Line Company of America completed 53 miles of 24-inch gas line from near Geneseo to La Salle. H. C. Price Company, Bartlesville, Okla., Contractors.

Ohio Oil Company completed 6 miles of 10-inch crude lines on their line from Stoy to Robinson. Sheehan Construction Company, contractors.

Peoples Light Gas and Coke Company's application to FPC was approved to construct 7 miles of 24-inch gas line loop on Chicago District Pipe Line Company's Calumet line, extending from the city limits of Chicago to the PLGC's Calumet gas plant.

Public Service Company of Northern Illinois completed 7 miles of 12-inch and 2½ miles of 10-inch gas lines from its storage field at Matteson to Chicago Heights. Midwestern Contractors, Inc., Chicago, contractors.

Public Service Company of Northern Illinois completed 6 miles of 12-inch gas line from Wedron to Ottawa. Midwestern Contractors, Inc., Chicago, contractors.

Public Service Company of Northern Illinois completed 6 miles of 6-inch gas line from Marseilles to Seneca. Midwestern Contractors, Inc., Chicago, contractors.

Shell Pipe Line Corporation relocated 5 miles of 8-, 10-, and 12-inch crude lines at Chain of Rocks Canal, Wood River. Midwestern Constructors, Inc., Tulsa, contractors.

Standard Oil Company of Indiana completed laying a total of about 5 miles of 8-inch products lines at the Peoria terminal station. Midwestern Contractors, Inc., Chicago, contractors.

Texas-Empire Pipe Line Company is scheduled to start construction on 183 miles of 18-inch crude line from Patoka to Wilmington in early 1949, as well as a 31-mile loop of 16-inch crude line from Wilmington to East Chicago, Ind.

Western United Gas & Electric Company completed five miles of 6-inch and 8-inch natural gas lines at the Globe Refinery, Lemont. Midwestern Contractors, Inc., Chicago, contractors.

Indiana

Anchor Hocking Glass Company completed 10 miles of 6-inch gas line from Winchester to Ripley, W. Va. Midwestern Constructors, Inc., Tulsa, contractors.

Iowa

Mesabi Pipe Line Company has made application before the FPC to construct 400 miles of 18-inch gas lines with 40 miles of lateral lines, extending from Keokuk to Itasca County, Minn.

National Cooperative Refinery Association completed 25 miles of 6-inch products lines from Council Bluff to Irvington, Neb. Company constructed.

Natural Gas Pipe Line Company of America completed 13½ miles of 26-inch gas line from Station 8 to the Des Moines River.

Northern Natural Gas Company was authorized by the FPC to construct about 34 miles of 10-inch natural gas lines extending from Ames to Marshalltown. Construction to be completed in 1949.

Kansas

Cities Service Gas Company has completed more than 100 miles of the 26-inch gas line now under construction from Ulysses to Kansas City. Ray L. Smith & Son, Inc., El Dorado, Kansas, contractors for the western section, and Midwestern Constructors, Inc., Tulsa, contractors for the northern section.

Cities Service Gas Company completed 50 miles of 26-inch gas line loop from Olathe to Kansas City. Midwestern Constructors, Inc., Tulsa, contractors.

Cities Service Gas Company completed 7 miles of 26-inch gas line extension on the Olathe line. Midwestern Constructors, Inc., Tulsa, contractors.

Cities Service Gas Company laid 15 miles of 12-inch gas line replacing a 10-inch line from Columbus to Pittsburg, Kansas. The construction organization of the company also laid 47 miles of 20-inch gas line to replace a 16-inch line.

Cities Service Gas Company completed laying 5½ miles of 6-inch gas line at Chase, Kansas. Knapp Construction Company, contractors.

Cities Service Gas Company completed 44½ miles of 20-inch gas line replacing a 16-inch line from Mound Valley to Columbus, Kansas. Company construction crew.

Cities Service Gas Company completed 52 miles of 26-inch gas line and 6 miles of 16-inch gas line from Ottawa to Kansas City and Independence, Mo. Midwestern Constructors, Inc., Tulsa, contractors.

Colorado Interstate Gas Company completed 25 miles of 4-inch to 16-inch natural gas gathering lines in the Hugoton field near Ulysses, Grant County, Kansas. J. E. Cheek Construction Company, Pampa, contractors.

Cooperative Refinery Association completed 24 miles of 6-inch crude oil line from Augusta to Valley Center. The Jayhawk Construction Company, Inc., contractors.

Kansas-Nebraska Natural Gas Company, Inc. completed 50 miles of 8-inch natural gas line from Otis to Plainville.

Kaw Pipe Line Company completed 19 miles of 4-inch and 6-inch crude line from the

Bemes Pool to the company's pump station. Knupp Construction Company, Inc., contractors.

Magnolia Petroleum Company completed a total of 210 miles of natural gas gathering system in the Hugoton field, ranging from 4-inch to 24-inch lines. Lines laid were: 5 miles of 24-inch; 19 miles of 20-inch; 3 miles of 18-inch; 2 miles of 16-inch; 8 miles of 12-inch; 7½ miles of 10-inch; 12½ miles of 8-inch; 23½ miles of 6-inch; 56½ miles of 4-inch; 7½ miles of 16-inch; 6 miles of 8-inch; and 52 miles of 4-inch. R. H. Fulton & Company, Lubbock, contractors.

Northern Natural Gas Company completed 13 miles of 24-inch loop gas lines beyond the Clifton Station in Clay County. J. R. Horrigan Construction Company, Houston, contractors.

Northern Natural Gas Company completed 35 miles of 16-inch and 150 miles of 18-inch and 24-inch looping gas lines on the company's line to Ia. and Minn. The looping began at Clifton, Neb. Eastern Construction Company, Dallas, and McVean & Roberts Pipe Line Construction, Odessa, contractors.

Northern Natural Gas Company completed 14 miles of 20-inch, 12½ miles of 16-inch; 19 miles of 8-inch and 17 miles of 6-inch natural gas gathering system east of the Sublette compressor station in the Hugoton gas field. R. H. Fulton and Brodie Construction Company, contractors.

Northern Natural Gas Company completed 6 miles of 8-inch, and 17½ miles of 6-inch natural gas gathering lines at Sublette and Dodge City, respectively. Brodie Construction Company, contractors.

Northern Natural Gas Company completed 11 miles of 24-inch gas line north of Clifton station. C. S. Foreman Company, contractors.

Northern Natural Gas Company completed 9 miles of 4-inch, 4 miles of 6-inch and 4½ miles of 8-inch natural gas gathering lines in Seward and Haskell Counties.

Republic Natural Gas Company completed 24½ miles of 4-inch, 6-inch, 8-inch, 10-inch, 12-inch and 14-inch natural gas lines in Hugoton. Knupp Construction Company, contractors.

Skelly Oil Company completed 7½ miles of 4-inch crude oil line near Burriton. Atlas Construction Company, contractors.

Soceny-Vacuum Oil Company, Inc., completed 42 miles of 6-inch crude oil line from the Morel Pool, Graham County, to the Adell Pool, Sheridan County. Knupp Construction Company, contractors.

Stanolind Oil & Gas Company plans to lay approximately 45 miles of natural gas gathering lines, ranging in size from 4-inch up to 26-inch in the Hugoton gas field to supply the company's synthetic gasoline plant to be located near Garden City or Dodge City.

Stanolind Oil & Gas Company completed 180 miles of all sizes natural gas gathering lines from 2-inch to 30-inch in the Hugoton field. Deaton & Sons Pipe Line Construction Company, contractors.

Stanolind Pipe Line Company completed 65 miles of 16-inch crude oil line from Lawrence to southern Nebraska. R. B. Potashnick, Cape Girardeau, Mo., contractor.

Kentucky

United Natural Gas Company completed 23 miles of 24-inch gas line loop on its main line between Alexandria and Foster. William Brothers, Tulsa, contractors.

Louisiana

Anchor Gasoline Corporation completed 35 miles of 6-inch gas line from Church point to Eola. Townsend Brothers, contractors.

Arkansas Louisiana Gas Company completed 16 miles of 6-inch gas line from the Haynesville field to the Columbia Gas Treating Plant, Columbia County, Ark. Company constructed.

Claiborne Gasoline Company completed 32 miles of 4-inch products line from Lisbon to El Dorado, Ark. Fowler Brothers, Cotton Valley, contractors.

Interstate Oil Pipe Line Company completed 9½ miles of 4-inch crude oil line from Hico-Knowles field to the company's Sugar Creek Station. Cameron Welding Works, Shreveport, contractors.

Interstate Oil Pipe Line Company completed 16 miles of 16-inch crude oil and 5 miles of 8-inch crude oil loops at Baton Rouge and Brookhaven, Mississippi, respectively. Latex Construction Company and J. R. Stewart, contractors.

Mississippi River Fuel Corporation has under construction a total of 199 miles of 22-inch gas loop lines, and 20 miles of 10-inch gas line in six manifolds at stream crossings. Loop lines would connect existing and authorized sections of pipe line along and parallel to company's main 22-inch line from Perryville station to St. Louis, Mo.

Mississippi River Fuel Corporation has completed 265 miles of 22-inch and 14 miles of 12-inch natural gas loop lines from the Monroe field to St. Louis, Mo. Holland Construction Company, Tulsa, and R. B. Potashnick, Cape Girardeau, Mo., contractors.

Sun Oil Company completed 70 miles of crude oil gathering lines in the Delhi field. Line sizes range from 2-inch to 26-inch. Fowler Brothers, Cotton Valley, contractors.

Tennessee Gas Transmission Company completed 23 miles of 30-inch natural gas line extending from Winfield. Morrison Construction Company, Inc., Odessa, contractors.

The Texas Company completed 17 miles of 8-inch gas line from Lake Salvador and Delta Farms fields to Laftite. Associated Contractors and Engineers, Houston, contractors.

The Texas Company completed 20 miles of 8-inch natural gas line from Golden Meadows to Bay St. Denis. Associated Contractors and Engineers, Houston, contractors.

United Gas Pipe Line Company completed 5 miles of 7-inch and 9 miles of 8-inch gas lines from West Lake Verret field to Oaklawn Plantation. Brown & Root, Inc., Houston, contractors.

Maine

Socony-Vacuum Oil Company, Inc., completed 127 miles of 6-inch products line from Portland to Bangor. Associated Contractors & Engineers, Inc., Houston, contractors.

Portland Pipe Line Company, operators of the U. S. section of 12-inch crude line from Portland to Montreal, contemplate a second crude line 236 miles long and 20-inches in diameter paralleling the first line. Pipe deliveries will delay construction until about 1950.

Michigan

Austin Field Pipe Line Company completed 162 miles of 24-inch natural gas line from Austin field to Detroit, plus 42 miles of 10-inch and 6-inch laterals. J. R. Horrigan Construction Company, Inc., Houston, contractors.

Michigan Consolidated Gas Company completed 17 miles of 24-inch gas line from Evergreen, eastern terminus of Austin-Detroit line to Melvindale.

Michigan Gas Storage Company is now constructing a 150-mile, 24-inch natural gas line from the Chelsea terminal to Winterfield and Cranberry Lake gas storage fields.

Minnesota

Minneapolis Gas & Light Company completed 20 miles of 12-inch, 16-inch and 20-inch natural gas line in the Minneapolis area. Williams Brothers, Tulsa, contractors.

Northern Natural Gas & Minnesota Natural Gas Company completed 33 miles of 6-inch and 4-inch natural gas line from Lakefield to Worthington. McVean & Roberts, Odessa, contractors.

Northern Natural Gas Company completed 4½ miles of 12-inch natural gas line near South St. Paul. G. G. Griffis Construction Company, Tulsa, contractors.

Mississippi

Atlantic Gulf Gas Company proposes to build 1530 miles of 26-inch gas line from Hattiesburg to Georgetown, S. C. with laterals in Georgia, Alabama and Florida.

Southern Natural Gas Company completed 123 miles of 24-inch, 14 miles of 20-inch, 5 miles of 8-inch and 7½ miles of 4-inch gas lines installed in Mississippi, Alabama and Georgia.

Southern Natural Gas Company completed 122 miles of 24-inch main line gas loops in Mississippi and Alabama, 14 miles of 20-inch main line loop in Georgia and 16 miles of 8-inch gas line in three loops in Mississippi and Alabama. Sheehan Pipe Line Construction Company, Tulsa, and Latex Construction Company, Houston, contractors.

Southern Natural Gas Company completed 40 miles of 24-inch natural gas loops between Pickens and Reform, Ala. Sheehan Pipe Line Construction Company, contractors.

Southern Natural Gas Company was authorized by FPC to construct 130 miles of 24-inch and 20-inch main gas line loops, 33 miles of 12-inch gas line to loop the present branch line to Gadsden, Ala.

Southern Natural Gas Company completed 35 miles of 24-inch gas line near Birmingham, Ala. H. C. Price Company, Bartlesville, Okla., contractor.

Southern Natural Gas Company completed 40 miles of 8-inch gas line from Geinville to Brookhaven. Latex Construction Company, contractors.

Southern Natural Gas Company completed 61 miles of 24-inch gas loop lines between Leeds, Ala. and Carrollton, Ga. Latex Construction Company, Houston, contractors.

United Gas Pipe Line Company completed 20 miles of 12-inch natural gas line from the Soso field to Laurel. Associated Contractors & Engineers, contractors.

United Gas Pipe Line Company completed 4 miles of 12-inch gas line lateral from the Benton-Jackson line in Hinds County, B & M Construction Company, Oklahoma City, contractors.

Missouri

Shell Pipe Line Corporation and The Texas Pipe Line Company (Ozark Pipe Line System) completed 220 miles of 22-inch crude line from Roxdale Station to Wood River, Ill. Anderson Brothers, Houston, contractor.

Sinclair Refining Company reconditioned 200 miles of 8-inch products from Kansas City to St. Louis.

Sinclair Refining Company completed reconditioning 376 miles of 8-inch crude oil line between Carrollton, and East Chicago, Ill., converting the reconditioned line into a products line.

Stanolind Pipe Line Company completed approximately 60 miles of 12-inch crude oil loops on the company's line from LaPlate to Wood River, Ill. Sheehan Pipe Line Company, Tulsa, contractors.

Stanolind Pipe Line Company completed 190 miles of 20-inch, and 70 miles of 22-inch loop line carrying crude oil from La Plata to Manhattan, Ill. O. C. Whitaker Company, contractor.

Montana

Montana-Dakota Utilities Company completed 23½ miles of 10-inch natural gas line in Valley County, paralleling an existing line from Bowdoin field to the Baker-Glendive field.

Nebraska

Northern Natural Gas Company completed 30 miles of 6-inch gas line from Fremont to Schuyler. McVean & Roberts, Odessa, Texas, contractors.

Stanolind Pipe Line Company completed 67 miles of 16-inch crude line from Gothenbury to Scotts Bluff. R. H. Fulton & Company, Lubbock, Texas, contractors.

New Mexico

Byrd-Frost Incorporated is planning 1310 miles of 26-inch gas line running from Farmington to San Francisco via Salt Lake City. They are also planning a branch line to Seattle, Wash., if further drilling in the region warrants.

El Paso Natural Gas Company has received FPC authorization to construct 601 miles of 26-inch gas line from Lea County to Blythe, Calif. Work scheduled to start late 1950 or January, 1951.

El Paso Natural Gas Company has filed application with FPC for the construction of a 470-mile, 26-inch gas line from San Juan County to Needles, Calif. Construction is to begin in 1951.

Maljamar Repressing Company completed 15 miles of various sized gas gathering lines in Maljamar field. McVean & Roberts Pipe Line Construction Company, Odessa, Texas, contractors.

Shell Pipe Line Corporation is constructing a 40-mile, 14-inch crude line from Hobbs to Jal. This is part of a 73-mile line from Wasson, Texas, Smith Contracting Company, Fort Worth, Texas, contractor.

Southern Union Gas Company is at work on a 38-mile, 12-inch loop on the San Juan Basin to Albuquerque line. Delmar Spafford, Farmington, contractor.

Southern Union Gas Company is also working on 13 miles of 10-inch gas line near Albuquerque. H. B. Zachry Company, Odessa, Texas, contractor.

The Texas Pipe Line Company, Shell Pipe Line Corporation, Empire Pipe Line Company, Sinclair Pipe Line Company in a joint project completed a 515-mile crude line from Jal to Cushing consisting of 92 miles of 20-inch pipe from Jal to Midland, Texas—Morrison Brothers Construction Company, Odessa, Texas, contractors; 253 miles of 22-inch pipe from Midland to Wichita Falls, Texas—Latex Construction Company, Houston, contractors; 175 miles of 24-inch pipe from Wichita Falls to Cushing—Smith Contracting Company, Fort Worth, Texas, contractors.

New York

Home Gas Company completed 5 miles of 14-inch gas line from Port Jervis to Deer Park. Williams Brothers, Tulsa, contractor.

Home Gas Company completed 30 miles of 12-inch gas line from Hancock to Cochecton. Britton Contracting Company, Fort Worth, Texas, contractors.

Home Gas Company also completed 25 miles of 10-inch, and 10 miles of 12-inch, 6-inch, and 4-inch gas line from Horseheads to Dundee. Britton Contracting Company, Fort Worth, Texas, contractor.

Manufacturers Gas and Power Company completed a 30-mile, 12-inch gas line in the Calicoon area. Britton Contracting Company, Fort Worth, Texas, contractor.

Manufacturers Light & Heat Company completed 29 miles of 4-inch up to 12-inch gas line in the Majorville storage field.

Ohio

Buckeye Pipe Line Company completed 110 miles of 12-inch crude line from Cygnet to Cleveland. Sheehan Pipe Line Construction Company, contractor.

Buckeye Pipe Line Company also completed 10 miles of 22-inch crude outlet from Lima to Toledo.

East Ohio Gas Company completed an 84-mile, 20-inch gas line from Mullet Farm to Ross Farm Station. Williams Brothers Corporation, contractor.

The Ohio Fuel Gas Company completed 8 miles of 10-inch gas line from near Gambier, Knox County, to Butler storage field.

The Ohio Fuel Gas Company are planning 97 miles of 20-inch, 16-inch, and 12-inch gas line extending from Ohio Fuel's Treat compressor station to a connection with the facilities of West Ohio Gas Company at Lima.

The Ohio Fuel Gas Company completed 22 miles of 16-inch gas line from Brown station to Pavia station via Monroe, Knox and Richland counties.

The Ohio Fuel Gas Company completed 8 miles of 16-inch gas line from Sullivant Township, Ashland County, to the Wellington compressor station. Mahoney Contracting Company, Mount Pleasant, Mich., contractor.

The Ohio Fuel Gas Company completed 49½ miles of 3-inch up to 16-inch gas gathering lines in Rushland, Ashland and Knox counties. Mahoney Contracting Company, Mount Pleasant, Mich., contractor.

The Ohio Fuel Gas Company completed an 8-mile, 12-inch gas line near Lima. Sheehan Pipe Line Construction Company, Tulsa, contractor.

The Ohio Fuel Gas Company also completed 40 miles of 20-inch gas line near Sugar Grove. Midwestern Constructors, Tulsa, contractor.

The Ohio Fuel Gas Company installed 7 miles of 10-inch gas line at the Salt Creek storage project, Benton County. Midwestern Constructors, Tulsa, contractor.

The Ohio Fuel Gas Company completed 52 miles of 20-inch gas line from Treat Station, Licking County, to Auburn, Crawford County. This line replaces 75 miles of 10-inch, 12-inch, and 16-inch pipe in the area. Mahoney Contracting Company, Mount Pleasant, Mich., contractor. They also finished 8 miles of 18-inch gas line from Lebanon station on Big Inch, Warren County, to Centerville Station, Montgomery County. Anderson Brothers, Houston, contractor.

Transit and Storage Company (Imperial Oil, Ltd.) is planning a 152-mile, 16-inch crude line, replacing an 8-inch and a 6-inch line from Cygnet to the International Boundary in Michigan to connect with lines leading to the Sarnia, Ont., refinery.

Oklahoma

Cities Service Gas Company completed a gas gathering system in Guymon field, Texas County, consisting of 7 miles of 22-inch pipe, 11 miles of 12-inch pipe, and 7 miles of 10-8-6-4-inch pipe. Carlson & Son Construction Company.

Interstate Oil Pipe Line Company completed a 47-mile, 12-inch crude outlet from the Oklahoma City pump station to the Katie-Maysville area, Garvin County. Midwestern Constructors, Tulsa, contractor.

Interstate Oil Pipe Line Company completed 7 miles of 12-inch crude line in the Katie-Maysville area. Midwestern Constructors, Tulsa, contractor.

Mid-Continent Pipe Line Company completed 8 miles of 4-inch crude line from Drumright to Yale.

Mid-Continent Pipe Line Company completed a 17-mile, 4-inch line from South Canadian River to Flits station, carrying 6600 barrels of crude. A. C. Holder Construction Company, Tulsa, contractor.

Mid-Continent Pipe Line Company completed 7 miles of 6-inch crude line from Moore to west of Norman. Pipe Line Service Company, Seminole, contractor.

Mid-Continent Pipe Line Company finished 7 miles of 6-inch crude outlet from Cromwell station to Tiger Junction. A. C. Holder Construction Company, contractor.

Mid-Continent Pipe Line Company completed 8½ miles of 4-inch crude line from Maysville to Lindsay Pool. A. C. Holder Construction Company, contractor.

Natural Gas Pipe Line Company of America completed 37 miles of 26-inch gas line from Station 1, near Hooker, to a point near the Oklahoma-Kansas border. R. H. Fulton & Company, Lubbock, Texas, contractor.

Northern Oklahoma Gas Company completed 7 miles of 4-inch gas line from Perry to Toe field, northeast of Perry. Wilson Construction Company, Tulsa, contractor.

Oklahoma Natural Gas Company completed 70 miles of 16-inch gas line from Holdenville to Maysville. Trojan Construction Company, Oklahoma City, contractor.

Oklahoma Natural Gas Company completed 35 miles of 12-inch gas line from Maysville to Velma. Trojan Construction Company, Oklahoma City, contractor.

Oklahoma Natural Gas Company completed 10 miles of 18-inch gas line in the vicinity of Muskogee. Trojan Construction Company, Oklahoma City, contractor.

Oklahoma Natural Gas Company is constructing an 8-inch gas line across the Arkansas River near Camp Gruber. Trojan Construction Company, Oklahoma City, contractor.

Oklahoma Natural Gas Company completed a 36-mile, 12-inch gas line from Ninnelak to Maysville. Trojan Construction Company, contractor.

Oklahoma Natural Gas Company is constructing a 66-mile, 16-inch gas line, and also a 67-mile, 12-inch line from near Wewoka to Velma pool, Stephens County. The project will be completed in March, 1949. Trojan Construction Company, contractor.

Phillips Petroleum Company is laying a 90-mile gas gathering system of 8-inch to 24-inch pipe from Texhoma. System will be completed in February, 1949. Vaughn & Taylor Construction Company, Wichita Falls, Texas, contractor.

Phillips Pipeline Company completed 7 miles of 4-inch crude line in the vicinity of West Cement Medrano Pool. Trojan Construction Company, Oklahoma City, contractor.

Republic Natural Gas Company completed 6 miles of 20-inch gas line at Guymon. Knupp Construction Company, Great Bend, Kansas, contractor.

Shell Pipe Line Corporation and The Texas Pipe Line Company are constructing 378 miles of 20-inch gas line from Cushing to Wood River, Ill.; and 61 miles of 16-inch gas line from Wood River to Salem, Ill. This line will connect to the Jal-Cushing Basin system.

Shell Pipe Line Corporation and The Texas Pipe Line Company (Ozark Pipe Line System) are laying 79 miles of 22-inch crude line from Cushing to Chelsea, including Ark. and Cimarron River crossing. Line to be completed in May, 1949. Midwestern Constructors, Tulsa, contractor.

Shell Pipe Line Corporation and The Texas Pipe Line Company (Ozark Pipe Line System) completed 157 miles of 22-inch crude line from Verdigris River to Roxdale Station, Mo. Smith Contracting Corporation, Fort Worth, Texas, contractor.

Sinclair Refining Company completed the reconditioning of 378 miles of 8-inch products line from Seminole to Carrollton, Mo.

Skelly Oil Company completed a 9-mile, 6-inch crude gathering line extension in Velma Field, Stephens County. Bishop and Lock Construction Company, Dallas, Texas, contractor.

Skelly Oil Company also completed a 25-mile, 4-inch to 20-inch gas gathering in the Velma field. D-M Construction Company, contractor.

Stanolind Pipe Line Company completed 55 miles of 16-inch crude line in the vicinity of Hollis. Latex Construction Company, Houston, contractor.

Stanolind Pipe Line Company completed 12½ miles of 20-inch crude line from Nelagony Junction to Hominy Station. Midwestern Constructors, Tulsa, contractor.

Stanolind Pipe Line Company completed a 5-mile, 6-inch gravity crude line in the Shoem-Alechem Field, Stephens and Carter counties. Vaughn and Taylor Construction Company, Wichita Falls, Texas, contractor.

Stanolind Pipe Line Company completed 51 miles of 16-inch crude line from Gotebo to South Canadian River. Smith Contracting Corporation, Fort Worth, Texas, contractor.

Sunray Oil Corporation completed 17 miles of 8-inch crude line from Beckett to Velma. Pipe Line Service Company, Seminole, contractor.

Sunray Oil Corporation completed 79 miles of 6-inch crude line from Velma to their Allen refinery. This connects with the 17-mile line from Beckett to Velma. Pipe Line Service Company, Seminole, contractor.

Sunray Oil Corporation completed 93 miles of 6-inch and 17 miles of 8-inch products line from Duncan to Allen. Pipe Line Service Company, Seminole, contractor.

Texoma Natural Gas Company completed 10½ miles of 26-inch gas line running from 36 miles south of Compressor Station No. 2 to the south end of the 26-inch loop line constructed in 1947. R. H. Fulton & Company, Lubbock, Texas, contractor.

The Texas Pipe Line Company completed 23 miles of 8-inch crude line from Antioch pool, Garvin County to Velma pool, Stephens County. C. L. Rogers Construction Company, Wichita Falls, Texas, contractor.

Texas-Empire Pipe Line Company completed 47 miles of 10-inch crude line from Cushing Tank Farm to the West Tulsa refinery, West Tulsa, Okla. Williams Brothers Corporation, Tulsa, contractor.

Warren Petroleum Corporation completed a 200-mile, 2½-inch to 10-inch gas gathering system in the vicinity of Maysville. Holland Construction Company, Tulsa, contractor.

Warren Petroleum Corporation completed a 65-mile, 2-inch to 30-inch gas gathering system for the Lindsey gasoline plant. Pipe Line Service Company, Seminole, contractor.

Warren Petroleum Corporation also completed a 60-mile, 2½-inch to 10-inch gas gathering system in the Antioch area. Holland Construction Company, Tulsa, contractor.

Pennsylvania

Manufacturers Light and Heat Company completed 118 miles of 14-inch gas line from Coatsville to Port Jervis, N. Y. Williams Brothers, Tulsa, contractor.

Manufacturers Light and Heat Company completed 7½ miles of 14-inch gas line to various points of connection with the main pipe line of Texas Eastern Transmission Corporation.

New York State Natural Gas Corporation is authorized to construct 14 miles of 16-inch transmission line; 70 miles of 12-inch and 50 miles of 14-inch loop line in Pa.

New York State Natural Gas Corporation completed 8 miles of 16-inch gas line from Sharen storage field, Potter County, to the state line compressing station. Williams Brothers Corporation, Tulsa, contractor.

The Peoples Natural Gas Company completed 10 miles of 12-inch gas line from Dice Storage Field, Westmoreland County, to the Wilkinsburg pressure station, Allegheny County. Pipe Line Construction Corporation, Camp Hill, contractor.

The Peoples Natural Gas Company completed 6 miles of 16-inch gas line from a mile east of Greensburg to the vicinity of Latrobe. Williams Brothers Corporation, Tulsa, contractor.

The Peoples Natural Gas Company completed 12 miles of 12-inch gas line from their line near New Kensington to Mt. Royal storage field, Allegheny County. Williams Brothers Corporation, Tulsa, contractor.

Sinclair Refining Company completed a 26-mile, 8-inch products line from a tank farm near Chelsea, Delaware County, to a terminal near Philadelphia. John Mehan & Son, Philadelphia, and Ralph Hopple, Canton, O., contractors.

Soco-Vacuum Oil Company completed 155 miles of 8-inch products line from Malvern to Binghamton, N. Y., and 7 miles of 6-inch branch line from the main line to the Allentown bulk terminal. Midwestern Constructors, Tulsa, contractor.

Texas Eastern Transmission Corporation completed 20½ miles of 12-inch gas line from Montgomery County to near Cheltenham; and 6 miles of 8-inch gas line from Broadaxe, Montgomery County, to near Conshohocken. Brown & Root, Houston, awarded contract; Midwestern Constructors, Tulsa, subcontractor.

United Natural Gas Company completed a 72-mile, 20-inch extension of its line in Beaver County to connect with the Big Inch line in Green County. Williams Brothers Corporation, Tulsa, contractor.

United Natural Gas Company completed a 20½-mile, 22-inch gas line from Lamont Station to Overbeck, Jefferson County; a 192-mile, 20-inch gas line from Lamont Station to Lewis Run, near Bradford; a 64-mile, 12-inch gas line near Kane. Williams Brothers, Tulsa, contractor.

United Natural Gas Company also completed 20 miles of 12-inch gas line from Roulette to Wharton. Williams Brothers Corporation, Tulsa, contractor.

Tennessee

Alabama-Tennessee Natural Gas Company has an application before the FPC to construct 75 miles of 12-inch gas line from a TGT connection near Middleton to Tuscaloosa, Ala.

East Tennessee Natural Gas Company is constructing a 186-mile, 16-inch gas line from the TGT line near Nashville to Chattanooga; a 112-mile, 12-inch line from Chattanooga to Knoxville; and 150 miles of 3-4-8-inch gathering lines and laterals. N. A. Saigh Company, San Antonio, Texas, contractor.

East Texas

Arkansas-Louisiana Gas Company completed 7½ miles of 10-inch natural gas line south

of Texarkana. Wood Engineering & Construction Company, Tyler, contractors.
The Atlantic Pipe Line Company completed 5 miles of 8-inch crude oil line from the company's Horton Station at Longview to Camp Rack. Titworth and Partain, Kilgore, contractors.

Hunt Oil Company completed 4 miles of 7-inch and 3 miles of 4-inch high-pressure natural gas line in the company's Carthage gathering system. Titworth and Partain, Kilgore, contractors.

Rogers Lacy completed 24 miles of 16-inch gas line from Carthage to Longview, and 20 miles of 12-inch gas line from the Watson field to Jefferson.

Lone Star Gas Company completed 66 miles of 18-inch gas line from Opelika to Greenville, Lone Star crews.

Lone Star Gas Company completed 70 miles of 20-inch gas line from the Opelika field to Dallas. Eastern Construction Company, Dallas, contractors.

Lone Star Gas Company completed 40 miles of 10-inch natural gas line from Sulphur Springs to Paris, Texas. Latex Construction Company, Houston, contractors.

Magnolia Pipe Line Company completed 650 miles of 20-inch crude oil line from Corsicana to Patoka, Ill. Daily capacity will be 100,000 barrels. H. C. Price Company, Bartlesville, Eastern Construction Company, Dallas, and Oklahoma Contracting Company, Dallas, contractors.

Pan American Pipe Line Company completed 10 miles of 4-inch crude oil line from Gladewater to Big Sandy. Titworth and Partain, Kilgore, contractor.

Pan American Pipe Line Company completed 9 miles of 4-inch crude oil gathering line and 4 miles of 6-inch crude oil gathering line in the Merigale-Paul field. Altgelt Construction Company, Corpus Christi, contractors.

Texas Eastern Transmission Corp. has filed an application before FPC to construct a 26-inch gas line from Longview, Texas to the Pittsburgh, Pa., area, a distance of approximately 1020 miles. Availability of steel will place this project several years in the future. The line is to be laid along the right of way of the Big Inch Pipe Line.

Texas Eastern Transmission Corp. completed 17 miles of 10-inch natural gas line from the Silsbee field to the Little Big Inch Line.

Texas Gas Transmission Corp. has applied to FPC for authority to construct an 840-mile natural gas line extending from the Carthage field to the vicinity of Middletown, O. The line will consist of 114 miles of 20-inch pipe from Carthage to the Lisbon field, and 726 miles of 26-inch pipe from Lisbon to the O. terminus. Stone & Webster Engineering Corp. to supervise construction.

The Texas Pipe Line Company contemplates a 196-mile, 12-inch crude oil line for 1949. The line will extend from the company's Corsicana junction to the Wichita Falls booster station.

Tennessee Gas Transmission Corp. completed 73 miles of 20-inch natural gas line from the Carthage field to the company's Natchitoches, La., station. Latex Construction Company, contractors.

Triangle Pipe Line Company completed 39 miles of 8-inch and 4 miles of 6-inch products line between Carthage and Shreveport, La. Sheppard-Geiger Construction Company, Corpus Christi, contractors.

United Gas Pipe Line Company completed 5 miles of 12-inch gas line looping existing gas line from Ft. Worth to Handley. O. C. Whitaker, Ft. Worth, contractor.

United Gas Pipe Line Company completed 16 miles of 16-inch gas line from Wood County just north of Hawkins to the company's compressor station at Mineola. O. C. Whitaker Company, Ft. Worth, contractors.

United Gas Pipe Line Company completed 16 miles of 18-inch natural gas line paralleling existing main line in Kaufman County. O. C. Whitaker Company, Ft. Worth, contractor.

United Gas Pipe Line Company completed 13 miles of 18-inch natural gas line from the company's compressor station at Mineola to a point 13 miles west in Van Zandt County. O. C. Whitaker Company, Ft. Worth, contractor.

United Gas Pipe Line Company completed 6 miles of 10-inch and 2½ miles of 8-inch natural gas lines near Beckville in the Carthage area. Wood Engineering and Construction Company, Tyler, contractors.

North Texas

Continental Pipe Line Company completed 135 miles of 6-inch products line from Wichita Falls to Allen, Okla.

Continental Pipe Line Company completed 16 miles of 6-inch crude line from a point 3

miles east of the Wichita Falls refinery to the Ringgold-Joy Junction in Clay County. C. L. Rogers Construction Company, Wichita Falls, contractor.

Lone Star Gas Company completed 70 miles of 20-inch natural gas company from Opelika to Dallas. Eastern Construction Company, Inc., Dallas, contractors.

Sinclair Refining Company completed 6 miles of 6-inch crude oil line from Murray-Ken-dall area to the company's Ellaville station. C. L. Rogers Construction Company, Wichita Falls, contractors.

Sinclair Refining Company completed 7½ miles of 4-inch crude line from Sinclair's Ellaville station to nearby wells. C. L. Rogers Construction Company, contractors.

Sinclair Refining Company completed 180 miles of 8-inch products line from Arlington to Panova station near Paul's Valley, Okla. Pacific Pipe Line & Engineers, Ltd., contractors.

The Texas Pipe Line Company completed 22 miles of 10-inch crude line from its Wilson station in Archer County to Wichita Falls station.

The Texas Pipe Line Company completed 170 miles of 24-inch crude oil line from Wichita Falls to Cushing, Okla. Smith Contracting Corp., Ft. Worth, contractors.

United Gas Pipe Line Company completed 15 miles of 6-inch natural gas line from Mineola to Lindale. Bishop & Lock Construction Company, Dallas, contractors.

Warren Petroleum Corp. completed 41 miles of varied sizes of gas gathering lines (2½-inch up to 10-inch) in the Taylor-Corner field near Wichita Falls. George W. Davis Construction Company, contractors.

Warren Petroleum Corp. completed 9 miles of 6-inch gas gathering lines in the East Texas field near Gladewater. Titworth and Partain, Kilgore, contractors.

Southwest Texas

Alamo Refining Company completed 24 miles of 8-inch products line from Sweeny to Freeport. Latex Construction Company, Houston, contractors.

Houston Industrial Gas Company completed 37 miles of 10-inch natural gas line from the Yoakum field to El Tora. C. W. Sternberg, Houston, contractor.

Humble Pipe Line Company completed 7 miles of 8-inch crude oil line from Hastings field to the company's Webster station. Latex Construction Company, Houston, contractors.

Humble Pipe Line Company completed 9 miles of 8-inch crude oil line south of Humble's Pettus station in Bee County. Massey Pipe Line Construction Company, Corpus Christi, contractors.

Humble Pipe Line Company completed 23½ miles of 12-inch crude oil loop lines to its existing system between Lytle station in Medina County and Ingleside station in San Patricio County. Sheppard-Geiger Construction Company, Corpus Christi, contractors.

Humble Pipe Line Company completed 9 miles of 8-inch crude oil line between the company's Refugio station and Ingleside station.

Magnolia Pipe Line Company completed 10 miles of 8-inch crude oil line in the Edna area. Altgelt Construction Company, contractor.

Magnolia Pipe Line Company completed 6 miles of 4-inch crude line in the Miranda field. Shanks & Eustace, Alice, contractors.

Southern Pipe Line Corp. completed 11 miles of 4-inch crude oil line from Sinton to Oden. Shanks & Eustace, Alice, contractors.

Southwest Texas Pipe Line Company completed 14 miles of 6-inch crude oil line from the Sinclair Damon station to Phillips Petroleum Company Alamo Refinery. Brown & Root, Houston, contractors.

Stanolind Pipe Line Company started construction of a 75-mile gas line of 4-inch and 10-inch pipe as part of a repressuring system in the Pettus field of Bee County. Morrison Construction Company, Odessa, contractors.

Tennessee Gas Transmission Company completed 207 miles of 30-inch and 31-inch loop gas line in Texas and Louisiana; 480 miles of 26-inch loop gas line in Louisiana and Kentucky; 143 miles of 24-inch loop gas line in Kentucky and West Virginia; 73 miles of 20-inch gas feeder line in Texas and Louisiana; and 8 miles of 16-inch gas feeder line in Louisiana. All new facilities listed were added to the company's Corpus Christi to West Virginia main gas line. Projects planned but no contracts let for expansion on the line include: 489 miles of 30-inch gas loop in Texas and Kentucky; 91 miles of 26-inch loop line in Texas and Kentucky; 86 miles of 24-inch loop gas

line in Texas; and 85 miles of 16-inch feeder line in Texas.

The Toronto Pipe Line Company completed 3 miles of 4-inch crude oil line from Brandt field to Toronto-Slick-Wilcox station. Alt-gelt Construction Company, Corpus Christi, contractor.

Trans-Continental Gas Pipe Line Corporation was granted FPC approval and is now preparing to start construction of a 1839-mile natural gas line extending from the Roger Lacy field in Southwest Texas to 132nd Street, New York City. The line will consist of 71 miles of 20-inch, 558 miles of 26-inch and 1210 miles of 30-inch line. Fish Engineering Corp., Houston, has turn-key contract on complete job.

Texas Panhandle

Michigan-Wisconsin Pipe Line Company has commenced construction on a 1181-mile natural gas line extending from Hansford County to Mecosta County, Mich., and Green Bay, Wis. The line will consist of 1170 miles of 24-inch pipe, 11 miles of 18-inch pipe with 310 miles of 2-inch to 14-inch laterals. J. R. Horrigan Construction Company, Inc., Houston, was awarded contracts totaling 405 miles of the line.

Panhandle Eastern Pipe Line Company completed 199 miles of 26-inch natural gas lines in its looping program for the company's main line from the Panhandle to Michigan. Plans for 1949 construction total 169 miles of 26-inch gas loops on the main line. Contractors working on the expansion program include: Midwestern Constructors, Inc., Tulsa; R. H. Fulton & Company, Lubbock; and R. B. Potaschnick, Cape Girardeau, Mo.

Phillips Petroleum Company completed 98 miles of 8-inch line completing 12 loops on its main products line between Borger and Chicago. Vaughn & Taylor Construction Company and Deaton & Sons, contractors.

Phillips Petroleum Company completed 37 miles of 6-inch products lines between Borger and McKee. Al Johnson Construction Company, contractors.

Phillips Petroleum Company completed 19½ miles of 4-inch products line extending from its Dumas gasoline plant to existing line in Moore County. Vaughn & Taylor Construction Company, Inc., contractors.

Phillips Petroleum Company completed 40 miles of 24-inch, 9 miles of 16-inch, 12 miles of 14-inch, 10 miles of 10-inch and 25 miles of 8-inch natural gas gathering lines in the Sherman field. Vaughn & Taylor Construction Company, Inc., contractors.

Texoma Natural Gas Company completed 10 miles of 26-inch natural gas line loops 35 miles south of Natural Gas Pipe Line Company of America station No. 2. R. H. Fulton Company, contractors.

Upper Texas Coast

Dow Chemical Company completed 37 miles of 8-inch and 25 miles of 4-inch gas lines in the Freeport area. Latex Construction Company, contractors.

Gulf Refining Company completed 11 miles of 10-inch, crude line from Lucas to Port Arthur, 9 miles of 8-inch line from Lufkin to Chester and 12 miles of 10-inch crude line from Sour Lake to Port Arthur. Latex Construction Company, contractors.

Gulf Refining Company completed 15 miles of 8-inch crude oil loops between Almeda and Raywood stations. Latex Construction Company, Houston, contractor.

Humble Pipe Line Company completed 7 miles of 8-inch crude oil line from Hastings field to the company's Webster station.

Independent Natural Gas Company completed 18 miles of 8-inch natural gas gathering lines in the Blue Lake fields. Associated Contractors & Engineers, Houston, contractors.

Lavaca Pipe Line Company completed 11 miles of 8-inch gas line from Matagorda Bay to Aluminum Company of America's plant at Point Comfort. Continental Construction Company, Port Lavaca, contractors.

McCarthy Interests completed 22 miles of 12-inch, 23 miles of 14-inch, 20 miles of 16-inch and 10 miles of 20-inch natural gas lines from the Jackson Pasture field to the company's Winnie plant and on to Orange. Anderson Brothers, Houston, contractors.

McCarthy Interests completed 30 miles of 6-inch products line from Winnie to Port Neches, and 45 miles of 12-inch gas line from Winnie to Orange. Anderson Brothers, Houston, contractors.

Pan American Gas Company completed 20 miles of 16-inch natural gas line from Chocolate Bayou field to Texas City. Latex

Construction Company, Houston, contractors.

Piedmont Natural Gas Corporation has filed application with the FPC to construct a 990-mile, 20-inch natural gas line from the Gulf Coast sections of Texas and Louisiana to Danville, Va.

Sinclair Refining Company completed 260 miles of 10-inch products line from Houston to Arlington, between Fort Worth and Dallas. H. C. Price Company, Bartlesville, contractors.

Texas Eastern Transmission Corp. completed 20 miles of 8-inch natural gas line from the Hastings field to TETCO's line near Baytown.

Texas Eastern Transmission Corp. plans to construct 17 miles of 10-inch natural gas line in the Silsbee field.

The Texas Pipe Line Company completed 60 miles of 16-inch crude oil line from West Columbia to East Houston. Latex Construction Company, contractor.

The Texas Pipe Line Company completed 87 miles of 20-inch crude oil line from East Houston to Port Neches and Port Arthur. Latex Construction Company, contractor.

Magnolia Pipe Line Company and The Texas Pipe Line Company completed 146 miles of 10-inch products line from Hearne to Dallas; 26 miles of 8-inch products line from Dallas to Fort Worth; 79 miles of 8-inch products line from Hearne to Austin, and 28 miles of 6-inch products line from Austin to San Marcos. Latex Construction Company and Associated Contractors & Engineers, both of Houston, contractors.

Trunkline Gas Supply Company has filed an application before FPC to construct an 885-mile, 30-inch natural gas line from Wharton County to Keokuk County, Iowa.

West Texas

Arizona Pipe Line Company is still considering plans to transport 14,000 barrels of Permian Basin crude to a proposed refinery at Phoenix. The carrier would be 620 miles of 8-inch with 4 stations on line, but construction is not likely until 1951.

Atlantic Pipe Line Company is planning a 382-mile, 10-inch crude line to run from block 31 field terminal, Crane County, to the Corpus Christi area.

El Paso Natural Gas Company is constructing 110 miles of 24-inch gas line from the Plymouth and Slick-Urschel discovery, Upton County, to Jal, N. M.

El Paso Natural Gas Company is constructing 251 miles of 24-inch gas line from Dumas to Eunice, N. M.

Empire Southern Gas Company completed 10 miles of 8-inch gas line from Shafter Lake field, Andrews County, to El Paso's Fullerton station. Contracted by El Paso Natural Gas Company's Construction Department.

Gulf Refining Company completed 44 miles of 10-inch loop line carrying crude oil from Ranger to Midland. Smith Contracting Company, Fort Worth, contractor.

Gulf Oil Corporation completed 7 miles of 24-inch crude line from Goldsmith pool to their main line. O. R. Smith Contracting Company, Fort Worth, contractor.

Gulf Refining Company completed 15 miles of 12-inch loop carrying crude between Chester Station and Sour Lake station, Carl H. Dunn, Fort Worth, contractor.

Gulf Refining Company also completed a 6-mile, 4-inch and a 6-mile 6-inch crude line from Keystone field lines to Winkler County. J. J. Willis Construction Company, contractor.

Humble Oil & Refining Company completed 9 miles of 6-inch crude line from Albany station to Putnam station, Shackelford County.

Humble Oil & Refining Company completed 11½ miles of 6-inch crude line replacing 5 miles of 4-inch. Royce L. Boyd, Cisco, contractor.

Humble Oil & Refining Company also completed 10½ miles of 8-inch crude line from Dollarhide field, Andrews County, to Dublin station on Hobbs-Winkler line. Morrison Brothers Construction Company, Odessa, contractor.

Phillips Petroleum Company completed 8½ miles of 8-10-16-24-inch crude line near Andrews. McVean & Roberts, Odessa, contractor.

Phillips Petroleum Company completed approximately 23 miles of 6-inch to 24-inch crude lines in the Odessa area. Vaughn & Taylor Construction Company, Wichita Falls, contractor.

Phillips Petroleum Company is constructing 259 miles of 12-inch crude line from Goldsmith field, Ector County, to Borger. Project to be completed May, 1949. Morrison & Company, Odessa, contractor.

Phillips Petroleum Company is planning a 315-mile, 12-inch crude line from Odessa to Phillips, Texas Panhandle.

Phillips Petroleum Company completed 6 miles of 26-inch gas gathering line in the

Goldsmith area. Smith Contracting Company, Fort Worth, contractor.

Phillips Petroleum Company also completed a 15-mile, 8-10-24-inch gas gathering system in the Goldsmith field. Vaughn & Taylor Construction Company, Wichita Falls, contractor.

Shell Pipe Line Corporation completed a 20-mile, 10-inch crude line from Wheeler to Wink to feed the Jal-Cushing system. Smith Contracting Company, Fort Worth, contractor.

Shell Pipe Line Corporation is constructing a 33-mile, 12-inch crude line from Wasson to Hobbs, N. M. This line will be extended to Jal. Smith Contracting Company, Fort Worth, contractor.

Shell Pipe Line Corporation completed 10 miles of 8-inch crude line from Ellenburger disc, Upton County, to the Upton station on West Texas trunk line. Morrison Brothers Construction Company, Odessa, contractor.

Shell Pipe Line Corporation completed the reconditioning of 7½ miles of 6-inch and 10-inch crude line in the Wink area. McVean & Roberts, Odessa, contractor.

Shell Pipe Line Corporation and several California companies are planning a 1000-mile, 20-inch crude line from Wink to Wilmington, Calif., to be started in 1950.

Stanolind Oil & Gas Company completed a 40-mile gas gathering and distribution system in the vicinity of Wink. McVean & Roberts, Odessa, contractor.

Stanolind Pipe Line Company completed 12 miles of 4-6-8-inch gathering lines in Fullerton field, Andrews County. McVean & Roberts, Odessa, contractor.

Stanolind Pipe Line Company completed 11½ miles of 6-inch and 10-inch crude line from Levelland station to Sundown station, Hockley County.

Stanolind Pipe Line Company is constructing 43 miles of 12-inch crude line from Wasson to Fullerton, and 37 miles of 10-inch from Fullerton to Wheeler. Smith Contracting Corporation, Fort Worth, contractor.

Stanolind Pipe Line Company completed 10 miles of 6-inch and 16 miles of 4-inch crude gathering line in Levelland field, Hockley County. C. L. Rogers Construction Company, Wichita Falls, contractor.

Stanolind Oil and Gas Company completed 320 miles of 2-inch to 30-inch gas gathering system in the vicinity of Sundown. Deaton & Sons Pipe Line Construction Company, Odessa, contractor.

Stanolind Pipe Line Company completed 31 miles of 16-inch crude oil line from Matador. R. H. Fulton & Company, Lubbock, contractor.

Stanolind Pipe Line Company completed 34 miles of 10-inch, 46 miles of 12-inch, 187 miles of 16-inch crude oil pipe line loops on its West Texas to Drumright, Okla., line. R. H. Fulton and Company, Lubbock; Latex Construction Company, Houston; Smith Contracting Corporation, Fort Worth; and O. C. Whitaker Construction Company, Fort Worth, contractors.

Sun Line Pipe Line Company completed a crude gathering system consisting of 11 miles 4-inch; 4 miles of 6-inch, and 1 mile of 8-inch pipe from Garcia field, Starr County, to Ross field, Jim Wells County. M. D. Altgelt Construction Company, Corpus Christi, contractor. They completed a second crude gathering system—2 miles of 4-inch and 11 miles of 6-inch from Canales field, Jim Wells County, to La Gloria field, Jim Wells County. Shanks and Eustace, Alice, contractor.

The Texas-New Mexico Pipe Line Company is constructing 26 miles of 8-inch crude line from its Shafter Lake station in Andrews County to connect with its 8-inch line near Dollarhide field. Wright Construction Company, Lovington, N. M., contractor.

The Texas-New Mexico Pipe Line Company is also constructing 17 miles of 6-inch crude line from Ozona station to Midway Lane station, Crockett County. Wright Construction Company, Lovington, N. M., contractor.

Texas-Western Oil Lines is planning 900 miles of 20-inch or 24-inch crude line from the Midland-Odessa area to Los Angeles.

Western Natural Gas Company is contemplating construction of a 110-mile, 20-inch or 24-inch gas line from Benedum field, Upton County, to its line at Jal, N. M.

Utah

Mountain Fuel Supply Company completed 35 miles of 10-inch gas line from Salt Lake City to Provo, Utah Construction Company, Salt Lake City, contractors.

Virginia

Washington Light Company completed 25 miles of 16-inch gas line on the Church Flax line. Holland Construction Company, Tulsa, Okla., contractors.

West Virginia

Atlantic Seaboard Corporation and Virginia Gas Transmission Corporation have an application before the FPC for the laying of 264 miles of 26-inch gas line from the United Gas Company's Cobb station, near Glendinning, to Rockville, Md., serving Washington Gas & Light Company.

Carbide and Carbon Chemicals Corporation completed 55 miles of 10-inch gas line from Charleston to Shegon. Pacific Pipeline & Engineers, Ltd., Los Angeles, contractors.

Cumberland and Allegheny Gas Company completed 7 miles of 6-inch gas line from Terra Alta to Oakland, Md.

Hope Natural Gas Company completed 13 miles of 26-inch gas line 13 miles north from Lockney. Pipe Line Construction Company, Camp Hill, Pa., contractors.

Hope Natural Gas Company has FPC authorization to lay 31 miles of 16-inch loop line, and 58 miles of 20-inch loop line out of Wyoming gas field near Cornwell Station. **Hope Natural Gas Company** has application before FPC to construct 26 miles of 14-inch gas line to complete the looping of a 90-mile line from Cornwell Station to Hastings Station.

Manufacturers Light & Heat Company completed 35 miles of 4-inch to 14-inch gas line on the Cameron line. Britton Contracting Company, Fort Worth, contractors.

United Fuel Gas Company and Ohio Fuel Gas Company is planning 100 miles of 20-inch gas line on the TGT line near Ceredo to Burlington, Fairfield County, O.

United Fuel Gas Company completed 70 miles of 20-inch gas line from Cobb Station, Roane County to a connection with a Manufacturers Light and Heat Company line in Monongalia County.

United Fuel Gas Company received FPC authorization to construct 50 miles of 16-inch gas line in Kanawha and Wetzel Counties.

Wisconsin

Wisconsin Southern Gas Company completed 5 miles of 6-inch gas line starting at a connection with Natural Gas Pipeline Company of America to Pleasant Prairie, Kenosha County, and running to Genoa City, Walworth County.

Wyoming

Continental Oil Company, Pipe Line Division completed 100 miles of 10-inch line, 18 miles of 10-inch line, and 30 miles of 8-inch line, carrying crude oil from 25 miles north of Cheyenne to Denver, Colo. 100-mile spread—Osage Construction Company, contractors; 18- and 30-mile spreads—contracted by Goldenstern & Stolzen Construction Company.

The California Company completed 24 miles of 6-inch crude line from Quealy Dome to Rock River where it will connect with Utah Oil Refining Company's system.

Frontier Refining has filed application with Colorado Public Service Commission to construct 65 miles of 6-inch crude outlet from Mush Creek and Ant Hills, Weston County, to Lance Creek Field near Lusk.

Powder River Pipe Line Company is planning 13 miles of 6-inch crude line from Mush Creek Field to the Graco refinery at Newcastle.

Rocky Mountain Gas Company completed approximately 54 miles of 8-inch gas line from Rawlins to Medicine Bow. Dawson & Corbett, Rawlins, contractors.

Secony-Vacuum Oil Company, White Eagle Division is planning a 122-mile 8-inch crude line from Big Horn Basin to Casper.

Stanolind Pipe Line Company completed 22 miles of 12-inch crude line from Lost Cabin, Fremont County to Arminito, Natrona County. This is part of a 57-mile project, to be completed when pipe is available. Pacific Pipeline & Engineers, Los Angles, contractors.

Stanolind Pipe Line Company completed 70 miles of 8-inch, 32 miles of 10-inch, 59 miles of 12-inch, and 150 miles of 16-inch crude oil pipe line loops on its Casper, Wyo., to Freeman, Mo., line. C. S. Foreman Company, Kansas City, Mo.; R. B. Potashnick, Cape Girardeau, Mo.; R. H. Fulton and Company, Lubbock, Texas; O. C. Whitaker Construction Company, Fort Worth, Texas, contractors.

Stanolind Pipe Line Company completed 11 miles of 8-inch crude line from Wamsutter Station, Sweetwater County, to Sinclair Station No. 3, Carbon County. C. L. Rogers Construction Company, Wichita Falls, Texas, contractors.

Wyco Pipe Line Company completed a 271-mile 8-inch products line running from Casper to Denver, Colo., via Cheyenne. Allred-Enix Construction Company, Houston, completed a 40-mile spread from Casper to Chuckwater. Pacific Pipe Line & Engineers, Los Angeles, constructed the rest of the line.

Pipe Line Activity in 1949

Arkansas

Arkansas Western Gas Company completed 17.5 miles of 8-inch natural gas loop line from Madison, Washington County, to Fayetteville, Worth James Construction Company, Little Rock, contractor.

Fort Smith Gas Corporation has applied to Arkansas Public Service Commission for permission to lay 6 miles of 4-inch natural gas line connecting Pocahontas, Ark., to the Mississippi River Fuel Corporation's 22-inch line.

California

Conestoga Gas & Electric Company is constructing 10 miles of 10-inch natural gas line between Watsonville and Gilroy. M. G. M. Construction Company, Concord, contractor.

Pacific Gas & Electric Company completed 19 miles of 30-inch natural gas line between Irvington and San Leandro, and 10 miles of 24-inch gas line between San Leandro and Oakland. Bechtel-Price-Conyes, San Francisco, contractors.

Pacific Gas & Electric Company is laying a 17.5-mile, 12-inch gas line from Davis to North Sacramento.

Pacific Gas & Electric Company has planned a 12.5-mile, 6-inch gas line connecting Dunnigan Hills field, Yolo County, to the Woodland-Davis-Sacramento line.

Pacific Gas & Electric Company completed 12 miles of 16-inch gas loop line between Rio Vista field and Napa.

Pacific Gas & Electric Company completed a 6-mile, 12-inch natural gas line connecting Petaluma with the existing line at Stoney Point. M. G. M. Construction Company, Concord, contractor.

Pacific Gas & Electric Company also completed 6.5 miles of 4- and 6-inch gas gathering line in Durham field, Butte County. M. G. M. Construction Company, Concord, contractor.

Pacific Gas & Electric Company is building 506 miles of 34-inch natural gas line connecting the company's Milpitas terminal to El Paso's line at Needles. Line is the largest diameter ever authorized for natural gas by FPC. Bechtel-Price-Conyes, San Francisco, contractors.

Richfield Oil Corporation is planning construction of a 40-mile, 10-inch crude oil line from Cuyama Valley field to Newhall.

Richfield Oil Corporation is constructing 60 miles of 14-inch crude oil line from Newhall to Wilmington. Completion is scheduled for January, 1950. Alex Robertson Company, Bakersfield, contractor.

Richfield Oil Company completed 22 miles of 14-inch crude oil line from Newhall to Burbank. J. E. Young Pipe Line Contractor, Inc., Los Angeles, contractor.

Richfield Oil Corporation completed 30 miles of 8-inch crude line connecting the San Joaquin-Maricopa pipe line with the Cuyama Valley field. Pacific Pipe Line & Engineers, Ltd., Los Angeles, contractor.

San Diego Gas and Electric Company completed 51 miles of 16-inch natural gas line from Southern Counties Gas' 16-inch line at Rainbow, San Diego County, to Mission Valley, San Diego County. Part of 85-mile joint project with Southern Counties Gas Company of California from Moreno to San Diego. Utility Construction Company, South Gate, and N. P. Van Valkenburgh Company, South Gate, contractors.

Southern Counties Gas Company of California completed a 12-mile, 20-inch gas line from Ventura to Carpinteria. J. E. Young Pipe Line Contractor, Inc., Los Angeles, contractor.

Southern Counties Gas Company of California completed 35 miles of 16-inch natural gas line from the Tex.-to-Calif. line at Moreno to San Diego County line. Part of 85-mile joint project with San Diego Gas and Electric Company. J. E. Young Pipe Line Contractor, Inc., Los Angeles, contractor.

Standard Oil Company of California completed 6 miles of 6-inch gas line connecting the line serving El Segundo refinery to Montebello field. Line replaces a 30-year old line which will be abandoned. Alex Robertson Company, Bakersfield, contractor.

Standard Oil Company of California has also completed 10 miles of 10-inch crude line from Wilmington to the existing line to Standard's El Segundo refinery. Line to move the increasing amount of crude oil being produced in the Los Angeles Basin area. Pacific Pipe Line and Engineers, Ltd., Los Angeles, contractor.

Colorado

Colorado-Wyoming Gas Company is planning construction of 41 miles of natural gas loop line on the Denver-to-Cheyenne line.

Connecticut

Northeastern Gas Transmission Company is planning a 511-mile, 20-inch natural gas line to supply New England area from the proposed TGT and Transcontinental Gas Pipe Line systems.

Illinois

The Buckeye Pipe Line Company completed 21 miles of 6-inch products line from The Texas Company's refinery at Lawrenceville to the company's pumping station at Robinson. H. L. Gentry Construction Company, Jackson, Mich., contractor.

Chicago District Pipe Line Company plans a 41-mile, 24-inch gas line from Joliet Township to Chicago south city limits.

Egyptian Natural Gas Company is planning 40 miles of 8-inch natural gas line from Norris City to Mount Vernon, and 40 miles of 6-inch gas line from Mount Vernon to Centralia and Salem.

Illinois Northern Utilities Company completed 9 miles of 4-inch natural gas line from company's Oregon regulating station to Natural Gas Pipe Line Company of America's meter station. Midwestern Contractors, Inc., Chicago, contractor.

Mississippi River Fuel Corporation completed 9.5 miles of 20- and 24-inch gas line from Granite City to East Saint Louis. Sheehan Pipe Line Construction Company, Tulsa, Okla., contractor.

Peoples Light Gas and Coke Company plans a 7-mile, 24-inch gas line connecting company's Calumet gas plant to proposed Chicago District Pipe Line Company's Calumet line.

Public Service Company of Northern Illinois completed a 6-mile, 12-inch natural gas line from Wedron to Ottawa. Midwestern Contractors, Inc., Chicago, contractor.

Sohio Pipe Line Company completed 40 miles of 2-inch to 6-inch crude gathering lines in Ill., Ind., and Ken. Somerville Construction Company, Ada, Mich., contractor.

The Texas-Empire Pipe Line Company completed 183 miles of 18-inch crude line, Patoka to Wilmington; and 42 miles of 16-inch loop from Wilmington towards East Chicago, Ind. Anderson Bros. Corporation, Houston and H. C. Price Company, Bartlesville, Okla., contractors.

The Texas Pipe Line Company completed a 55-mile, 22-inch crude oil line from Wood River to Patoka. Sheehan Pipe Line Construction Company, Tulsa, contractor.

Indiana

The Buckeye Pipe Line Company is constructing 140 miles of 8-inch products line from Speedway City to Lima, Ohio. H. L. Gentry Construction Company, Jackson, Mich., contractor.

City of Indianapolis is planning 55 miles of 16-inch natural gas line from the city's plant to Texas Eastern Transmission Company's Ind. line.

Panhandle Eastern Pipe Line Company has planned for 1950 construction a 25-mile, 16-inch gas line from the company's transmission line to Citizens Gas & Coke Utility in Indianapolis.

Texas Gas Transmission Corporation has FPC permission to build a 7.5-mile, 8-inch natural gas line from TETCO's "Big Inch" line to Mitchell.

Iowa

Iowa-Illinois Gas & Electric Company completed 25 miles of 4-inch gas line from Oskaloosa to Ottumwa. T. & L. Construction Company, Centralia, Ill., contractor.

Iowa-Illinois Gas and Electric Company completed an 11-mile, 10-inch natural gas line in the vicinity of Davenport. Midwestern Contractors, Inc., Chicago, contractor.

Kansas

Cities Service Gas Company is planning 29 miles of 16-inch natural gas line from Wichita to Newton.

Cities Service Gas Company has application before FPC for the construction of 42.6 miles of natural gas line in the Wichita-Newton area. Plan includes abandoning 127.3 miles of pipe line.

Cities Service Gas Company completed 26 miles of 4-, 6-, 12-inch gas gathering system in

Hugoton field. Knupp Construction Company, Inc., Great Bend, contractor.

Cities Service Gas Company has completed its 405-mile, 26-inch gas line from Hugoton field to Kansas City, Mo., more than 100 miles of which was laid in 1948. Ray L. Smith & Son, Inc., El Dorado, contractor for western end. R. H. Fulton & Company, Lubbock, Texas, contractor for center section from Newton to Ottawa; Midwestern Contractors, Tulsa, contractor for northern end.

Colorado Interstate Gas Company completed 38 miles of 20-inch loop lines on the Hugoton to Denver natural gas line. Cheek Construction Company, Inc., Ulysses, contractor.

Colorado Interstate Gas Company also completed 15.7 miles of 20-inch natural gas loop line at the Arkansas River crossing near Lakin. R. H. Fulton & Company, Lubbock, contractor.

The Cooperative Refinery Association completed 45 miles of 4- and 6-inch crude line between Plainville and Phillipsburg. W. E. Bolt Construction Company, Jenks, Okla., contractor.

The Kansas Power & Light Company completed 146 miles of 20- and 22-inch natural gas line from Ulysses to Pratt. M. E. White & Company, McPherson, contractor.

Kansas-Colorado Utilities, Inc., completed 21 miles of 4- and 6-inch gas lateral line and 9 miles of gathering line between Kendall and Syracuse. S. C. Patterson, Phillipsburg, contractor.

Kansas-Nebraska Natural Gas Company, Inc., has been granted FPC authority to build a 301-mile natural gas line in Kansas and Neb.

Northern Natural Gas Company has applied to FPC for permission to build 442 miles of 26-inch and 155 miles of 20-inch loop line between the Texas Panhandle and Minn. Contracts have been let as follows: 221 miles of 26-inch and 115 miles of 20-inch (Garden City to Bushton) to R. H. Fulton & Company, Lubbock, Texas; 109 miles of 26-inch to Midwestern Contractors, Inc., Tulsa; 112 miles of 26-inch to R. B. Potashnick, Cape Girardeau, Mo.

Northern Natural Gas Company is planning 20 miles of 20-inch and 3.7 miles of 24-inch natural gas line connecting Sublette to Plains Natural Gas Company's system in Okla. Panhandle. R. H. Fulton & Company, Lubbock, Texas, contractor.

Northern Natural Gas Company completed 46 miles of 4-, 6-, 8-inch gas gathering lines in Hugoton field. Knupp Construction Company, Inc., Great Bend, contractor.

Northern Natural Gas Company has completed 62 miles of 20- and 24-inch, and is building 44 miles of 4- through 12-inch gas gathering lines in the vicinity of Garden City. R. H. Fulton & Company, Lubbock, contractor.

Northern Natural Gas Company has completed 137.2 miles of 20- and 24-inch gas line in Kansas, Neb., Iowa, and Minn. Eastern Construction Company, Inc., Dallas, contractor for 56.4 miles of 24-inch and 21.1 miles of 20-inch; G. G. Griffis Construction Company, Tulsa, Okla., contractor for 59.7 miles of 24-inch.

Stanolind Oil & Gas Company completed 137 miles of 4- through 22-inch gas gathering system in Hugoton field near Ulysses, Cimarron River crossing included. Deaton & Sons, Inc., Odessa, Texas, contractor.

Kentucky

Central Kentucky Natural Gas Company completed 23 miles of 12-inch loop from Menifee to Mt. Sterling, and 2.3 miles of 16-inch transmission line from TGT's line at South Means to Menifee. Williams-Austin Company, Pittsburgh, Penn., contractor.

Louisiana

The American Gas Transit Company has proposed a 1500-mile, 30-inch line carrying natural gas from the New Orleans area to Toronto, Canada.

Atlantic Gulf Gas Company (Sub. United Gas Corporation) has an application before FPC for permission to lay 1731 miles of 2- to 30-inch line from Eastern Louisiana to Georgetown, S. C.

T. R. Bryan Associates completed 10 miles of 4-inch crude line in the vicinity of Opelousas. Latex Construction Company, Houston, contractor.

The California Company completed 40 miles of 6- and 8-inch crude line in the Ruston

vicinity. Latex Construction Company, Houston, contractor.

Interstate Natural Gas Company completed 29 miles of 16-, 20-, 22-inch gas line west of Baton Rouge. Latex Construction Company, Houston, contractor.

Interstate Oil Pipe Line Company completed a 12-mile, 8-inch crude line near La Rose, Lafourche Parish. Latex Construction Company, Houston, contractor.

Mississippi River Fuel Corporation completed 219 miles of 24-inch gas loops from Monroe field to St. Louis, Mo. R. B. Potashnick, Cape Girardeau, Mo., contractor.

Skelly Oil Company completed 8 miles of 3- and 8-inch gas gathering system in Logansport field, De Soto Parish. Wood Engineering & Construction Company, Arp, Texas, contractor.

Trunkline Gas Supply Company has an amended application before FPC for permission to build 740 miles of 26-inch main line from Longville to Panhandle Eastern Pipeline Company's Tuscola, Ill., station, and 810 miles of lateral supply lines to Texas and La. Gulf Coast gas fields.

United Gas Pipe Line Company has FPC authority to construct a 105.6-mile, 20-inch gas loop on the Carthage-Sterlington line. Loop will extend from De Soto Parish near the Texas-La. line to a point near Monroe. O. C. Whitaker Company, Fort Worth, contractor.

United Gas Pipe Line Company is planning a 90-mile, 16-inch gas line connecting New Orleans to the Mississippi River Delta fields.

United Gas Pipe Line Company completed 12 miles of 6-inch pipe from Church Point to Opelousas. Murray Construction Company, Shreveport, contractor.

United Gas Pipe Line Company has applied for FPC authorization to build 224 miles of pipe line from southeastern Louisiana fields to western end of Atlantic Gulf Gas Company's proposed La.-to-S. C. line.

United Gas Pipe Line Company has FPC permission for construction of a 26-mile line to connect four shut-in gas fields in southwestern La. with company's system near Port Arthur, Texas. United will purchase shut-in production from Magnolia Petroleum Company.

Maine

Portland Pipe Line Corporation has scheduled for 1950 construction 165 miles of 18-inch crude line from South Portland to the U. S.-Canada border at North Troy, Vt. Oklahoma Contracting Corporation, Dallas, contractor for 85 miles on southern end; Associated Pipe Line Contractors, Inc., Houston, contractor for remaining 80 miles to the border. A 70-mile stretch from the border to Montreal will be built by the Montreal Pipe Line Company.

Maryland

Consolidated Gas, Electric Light & Power Company completed 14 miles of 26-inch natural gas line in the vicinity of Baltimore. Pipe Line Construction & Drilling Company, Camp Hill, Penn., contractor.

Michigan

Dow Chemical Company completed 11 miles of 8-inch gas line connecting Ludington to Pentwater field. Somerville Construction Company, Ada, contractor.

Dow Chemical Company completed 56 miles of 8-inch gas line from Beaver Creek field, Crawford County, to Loomis. Somerville Construction Company, Ada, contractor.

Haven Gas Company completed 7 miles of 4-inch transmission and gathering lines between Newark field, Gratiot County, and the Consumers Power Company's 4-inch line. Welded Construction Company, Mount Pleasant, contractor.

Michigan Consolidated Gas Company proposes construction of a 21-mile, 24-inch gas line from Austin storage field to Reed City storage field.

Michigan Consolidated Gas Company completed 6 miles of 22-inch gas line from Jenison to Grand Rapids. Somerville Construction Company, Ada, contractor.

Michigan Consolidated Gas Company completed 22 miles of 12-inch natural gas line from Ann Arbor to Milford. Somerville Construction Company, Ada, contractor.

Michigan Consolidated Gas Company also completed 15 miles of 20-inch gas line between Goodwell field, Newaygo County, to Austin field, Mecosta County. Somerville Construction Company, Ada, contractor.

Michigan Gas Storage Company completed 75 miles of 20-inch line running from Panhandle Eastern Pipe Line Company's Chelsea terminal to Lainsburg, with 12- and 20-inch laterals running in to Lansing. This is part of a 150-mile, 20-inch line between Panhandle's Chelsea terminal and Winterfield and Cranberry Lake Storage fields. The middle portion, 51 miles, from Lainsburg to Mount Pleasant, is scheduled for 1950 construction,

and the northern end for 1951. E. J. Mahoney Construction Company, Mount Pleasant, contractor.

National Utilities Company of Michigan is constructing 50 miles of 4- through 10-inch lateral lines linking Grand Haven, Allegan, South Haven, Benton Harbor, and Coldwater with the Mich.-Wis. 24-inch line. Mahoney Contracting Company, Mount Pleasant, contractor.

Simrall Pipe Line Company completed 8 miles of 6-inch crude line from Rosebush field to Mount Pleasant. Somerville Construction Company, Ada, contractor.

Simrall Pipe Line Corporation completed 10 miles of 4-inch and 32 miles of 6-inch crude line between Pentwater field and Woodville. Somerville Construction Company, Ada, contractor.

Mississippi

Gulf Refining Company (Pipe Line Division) plans construction of a 200-mile, 16-inch crude line from the Heidelberg-Eucutta district of Jasper County to Mobile, Ala. Line would run via Baxterville field.

Southern Natural Gas Company proposes to lay approximately 803 miles of natural gas line from Gwinville field. This would include 275 miles of 18-inch from Gwinville to Marvyn, Ala., 221 miles of 16-inch from Marvyn to Aiken, S. C., with loops and connecting lines in Texas, La., Miss., Ga., and S. C.

Southern Natural Gas Company has FPC approval for the construction of 31.3 miles of 10-inch loop on Montgomery, Ala., branch. 6.8 miles of 6-inch loop on Meridian branch; 7.4 miles of 4-inch extension of Ala. branch.

South Mississippi Electric Power Association plans a 10-mile natural gas line between Baxterville field and Hub field.

United Gas Pipe Line Company completed 90 miles of 20-inch line between Mobile Junction and Baxterville field, and 9.5 miles of gathering lines in the field. O. C. Whitaker Company, Fort Worth, Texas, contractor.

Missouri

Missouri Utilities Company completed 6 miles of 6-inch gas line from Texas Eastern line near Ilmo to Cape Girardeau. Mid-States Construction Company, Mount Vernon, contractor.

Stanolind Pipe Line Company completed 64 miles of 12-inch crude loops on Company's LaPlate-Wood River line. Sheehan Pipe Line Company, Tulsa, contractor.

Montana

Interstate Oil Pipe Line Company completed a 67-mile, 12-inch crude line from Elk Basin field, Carbon County, to Billings and Laurel. Edmonds Construction Company, Cody, Wyo., contractor.

Montana-Dakota Utilities Company completed a 21-mile gas line from Utopia field, Liberty County, to Company's Telstad Station, Toole County.

The Montana Power Company plans construction of an 83-mile, 12-inch gas line from Butte to Bozeman.

Nebraska

Nebraska City Utilities completed 23.5 miles of 4-inch gas line from Otoe to Nebraska City. D. J. Hines, Hays, Kansas, contractor.

Ohio Oil Company plans a 20-mile line from Gurley field, Cheyenne County, to Stanolind's Wyo.-Mo. line.

New Jersey

County Gas Company has FPC authorization to build 11.4 miles of 6-inch natural gas line from Texas Eastern Transmission system near Perth Amboy to company's system near Keyport.

Jersey Central Power & Light Company has permission from FPC for the construction of a 39.4-mile, 10-inch gas line from Texas Eastern Transmission system at Bound Brook to company's gas manufacturing plant at Long Branch.

South Jersey Gas Company has applied to FPC for authorization to construct a 77-mile gas line from Transcontinental's lateral near Camden to Atlantic City, with laterals to Glassboro, Bridgeton, Vineland and Estellville areas.

New Mexico

El Paso Natural Gas Company has an application before FPC to construct 93.1 miles of gas line to supply gas to Alamogordo, White Sands Proving Ground, Holloman Air Base, N. M., and Wilcox, Ariz.

El Paso Natural Gas Company completed 18 miles of 16-inch line from TXL field, Ector County, to Keystone field, Winkler County. Built by company crews.

El Paso Natural Gas Company plans construction of a 721-mile project including 451 miles of 26-inch main line from the San Juan Basin to connect with its 26-inch line to

Needles, Calif.; 95.5 miles of feeder lines; and 174.4 miles of branch lines serving Winslow, Flagstaff, Williams, Seligman, Prescott and Kingman.

El Paso Natural Gas Company is constructing 247 miles of 26- and 30-inch loops on its Eunice to Blythe, Ariz., line; 102 miles of 26-inch and 17 miles of 30-inch between Gila station and Needles, Calif.; 95 miles of 24-inch feeder line from company's Keystone station to Benedum field, Upton County, Texas have been completed.

Magnolia Pipe Line Company completed 13 miles of 8-inch crude line from Cross Roads field and Betenbaugh area, Lea County, to Stanolind's Cap Rock-Slaughter 8-inch line. C. L. Rogers Construction Company, Inc., Wichita Falls, Texas, contractor.

Shell Pipe Line Corporation completed 41 miles of 14-inch crude line from Hobbs to the Basin Pipe Line system at Jal. Latex Construction Company, Houston, contractor.

Stanolind Pipe Line Company completed 7.9 miles of 4-inch and 1.8 miles of 6-inch crude gathering line from Knowles field, Lea County, to Jones Ranch station, Gaines County, Texas. C. L. Rogers Construction Company, Wichita Falls, Texas, contractor.

The Texas Pipe Line Company, Shell Pipe Line Corporation, Empire Pipe Line Company, Sinclair Pipe Line Company (Basin Pipe Line System) completed a 515-mile crude carrier from Jal to Cushing, Okla., consisting of 89 miles of 20-inch pipe from Jal to Midland, Texas—Morrison Brothers Construction Company, Odessa, Texas, contractor; 253 miles of 22-inch from Midland to Wichita Falls, Texas—Latex Construction Company, Houston, contractor; 173 miles of 24-inch from Wichita Falls to Cushing—Smith Contracting Company, Fort Worth, contractor.

United States Atomic Energy Commission completed 95 miles of 12-inch gas line from a line 35 miles south of Bloomfield to Los Alamos. Morrison Construction Company, Inc., Austin, Texas, contractor for 43 miles from Cuba to Los Alamos; Haddock Engineers & Associates, Ltd., Santa Fe, contractor for western portion.

New York

Brooklyn Union Gas Company has FPC authorization to construct 12 miles of 10-inch gas line in Brooklyn to distribute gas from Transcontinental's Texas-to-N. Y. project.

Central Hudson Gas & Electric Corporation is authorized by FPC to build a 40-mile pipe line from Home Gas Company's line at Tuxedo to company's gas plant at Poughkeepsie. Line will carry gas for distribution in Dutchess, Orange, and Ulster counties.

Central New York Power and Light Corporation and **New York Power and Light Corporation** have filed a joint application with FPC for construction of a 16-mile gas line from New York State Natural Gas Corporation's system on Otisco-Onondaga town line to Central's existing system near Syracuse.

Consolidated Edison Company of New York, Inc., has permission from FPC to build 23 miles of 16- to 30-inch natural gas line to distribute gas in New York City from Transcontinental Gas Pipe Line Company's system.

Home Gas Company has FPC permission to build 24 miles of 12-inch, 28 miles of 10-inch, 18 miles of 8-inch gas line in Orange, Sullivan and Rockland counties.

Iroquois Gas Corporation completed 8 miles of 22-inch line between Hamburg and Langford. H. L. Gentry Construction Company, Jackson, Mich., contractor.

Ohio

The Buckeye Pipe Line Company completed an 82-mile, 22-inch crude line paralleling its existing line from Lima to Toledo. Anderson Brothers Corporation, Houston, contractor.

Dayton Power and Light Company completed 14 miles of 12-, 16- and 18-inch gas line in the vicinity of Dayton. Poston Construction Corporation, Barberville, contractor.

The Manufacturers Light and Heat Company completed a 5-mile, 6-inch gas line from Steubenville to Wintersfield.

Natural Gas Company of West Virginia completed a 5-mile, 8-inch gas line from Brinker station to vicinity of Salem.

The Ohio Fuel Gas Company completed 10.6 miles of 16-inch gas line from Texas Eastern Transmission's system to Crawford station, Sugar Grove. Mahoney Contracting Company, Mount Pleasant, Mich., contractor.

The Ohio Fuel Gas Company completed 27 miles of 20-inch from near Columbus to TETCO's "Big Inch Lines" near Carroll. Mahoney Contracting Company, Mount Pleasant, Mich., contractor.

The Ohio Fuel Gas Company has FPC authorization for the construction of 59.8 miles of 3- to 12-inch line in connection with storage projects in Medina, Lorain, Richland and Hocking counties.

The Ohio Fuel Gas Company is authorized to

build 85.5 miles of 20-inch replacement line in central Ohio.

The Ohio Fuel Gas Company completed 40 miles of 20-inch from the Reed-Scipio Township line near Attica to the junction of T-50 and D-100 lines near Lime City. Mahoney Contracting Company, Mount Pleasant, Mich., contractor.

The Ohio Fuel Gas Company completed 11 miles of 18-inch from Pavonia station to Weaver station in Richland County. H. L. Gentry Construction Company, Jackson, Mich., contractor.

Ohio Oil Company completed 6 miles of 6- and 7-inch crude line between East Sparta and Canton. Sheehan Pipe Line Construction Company, Tulsa, contractor.

Standard Oil Company (Ohio) completed a 38-mile, 8-inch products line parallel to existing 6-inch line from Toledo to Fostoria. The Britton Construction Company, Hamilton, contractor.

Oklahoma

Cities Service Gas Company is building 23 miles of 10- and 12-inch gas line in the vicinity of West Edmond field. Gragg Construction Company, Britton, contractor.

Consolidated Gas Utilities Corporation completed a 14-mile, 12-inch line from Elk City field, Beckham County, to the company's Carpenter station.

Great Lakes Pipe Line Company has scheduled an 1141-mile products system consisting of 741 miles of 12-inch from Tulsa to Minneapolis and Saint Paul, Minn.; 255 miles of 12-inch from Kansas City to Sioux Falls, S. D.; 45 miles of 8-inch from Cushing to Tulsa; 19 miles, including Mississippi River crossing, has been completed between Minneapolis and Saint Paul by Williams Bros. Corporation, Tulsa, 261 miles from Des Moines to Minneapolis is now being laid by Sheehan Pipe Line Construction Company, Tulsa, A. C. Holder Construction Company, Tulsa, O. R. Burden Construction Company, Tulsa; 54 miles from Ponca City to Barnsdall is under way by A. C. Holder Construction Company; 236 miles from Tulsa to Kaw River, near Kansas City, Mo., by Pacific Pipe Line & Engineers, Ltd., Los Angeles.

Harrington and Marsh completed 12 miles of gas gathering lines in Texas County. Knupp Construction Company, contractor.

Interstate Oil Pipe Line Company completed 17 miles of 12-inch crude line from a point 7 miles south of Maysville station to Tussy station; and 5 miles of 8-inch from 12-inch line at Foster to Elmore City. O. C. Whitaker Company, Fort Worth, contractor.

Magnolia Petroleum Company completed 22 miles of 2- through 24-inch crude gathering system in the Duncan vicinity. C. P. Carter Construction Company, Duncan, contractor.

Mid-Continent Pipe Line Company completed 10 miles of 10-inch crude line from Mounds to Sapulpa, and 9 miles of 8-inch from Sapulpa to Tulsa. C. P. Carter Construction Company, Duncan, contractor.

Northern Oklahoma Gas Company completed 13 miles of 16-inch gas line from Three Sands field to Ponca City. Goldenstern & Stolper, Ponca City, contractor.

Oklahoma Natural Gas Company completed 10 miles of 10-inch in the vicinity of Wetumka, and 8 miles of 10-inch in West Edmond field. Western States Construction Company, Inc., Oklahoma City, contractor.

Oklahoma Natural Gas Company completed 66 miles of 16-inch and 67 miles of 12-inch from near Wewoka to Velma pool in Stephens County. Trojan Construction Company, Oklahoma City, contractor.

Oklahoma Natural Gas Company is constructing a 22-mile, 10-inch line from Stillwater to Guthrie. Trojan Construction Company, Inc., Oklahoma City, contractor.

Phillips Petroleum Company completed a 25-mile gas gathering system near Edmond. Vaughn & Taylor Construction Company, Inc., Wichita Falls, Texas, contractor.

Phillips Petroleum Company completed 90 miles of 8- to 24-inch gas gathering system from Texhoma (Hansford plant). Vaughn & Taylor Construction Company, Inc., Wichita Falls, contractor.

Plains Natural Gas Company plans to build 78 miles of 4- to 24-inch gas gathering system in Hugoton field, Oklahoma Panhandle. Arey-Phillips Construction Company, Dumas, Texas, contractor. This is the first project of a scheduled 282-mile gathering system. Contracts to be let as work progresses.

Shell Pipe Line Corporation and The Texas Pipe Line Company (Ozark Pipe Line System) completed 447 miles of 22-inch crude line from Cushing to Wood River, Ill. 79 miles from Cushing to Chelsea laid by Midwestern Constructors, Inc., Tulsa; 158 miles from Verdigris River to Roxdale station, Mo., by Smith Contracting Corporation, Fort Worth; 210 miles from Roxdale station to Wood

River by Anderson Brothers Corporation, Houston.

Shell Pipe Line Corporation completed a 160-mile, 10-inch crude line from Elk City field, Beckham County, to the Ozark Pipe Line System at Cushing. Pipe came from a 190-mile, 10-inch take up from Cushing to Emmitt, Mo., which was replaced by Basins-Ozark System. Trojan Construction Company, Inc., Oklahoma City, contractor.

Sohio Petroleum Company completed 10 miles of 4- to 8-inch crude gathering system in West Edmond field. Western State Construction Company, Inc., Oklahoma City, contractor.

Sunray Oil Corporation completed a 6-mile, 4-inch crude line from Palacie field, Stephens County, to Velma station.

Warren Petroleum Company completed 29 miles of 2- to 26-inch crude gathering line near Maysville. Holland Construction Company, Tulsa, contractor.

Westock Gas Company completed a 14-mile, 12-inch gas line in the vicinity of Edmond. B. H. Walker Construction Company, Oklahoma City, contractor.

Pennsylvania

Eastern Natural Gas Corporation has applied to FPC for permission to build a 292-mile, 24-inch transmission line from Phoenixville to Boston, Mass., with 200 miles of sales laterals along the route. The newly-formed company proposes to sell gas wholesale to public utilities or municipalities along the way.

Erie Gas Service Company, Inc., has application before FPC for construction of a 72-mile gas line from TGT's proposed Kentucky-Buffalo line near Meadville to Wickliffe. Line will supply gas to utilities serving towns east of Cleveland, Ohio.

Grand River Gas Transmission Company has applied to FPC for permission to construct a 42-mile line from TGT's proposed line at Meadville to Austinburg, Ohio; a 22-mile line from Austinburg to Fairport, Ohio; and a 10-mile line from Austinburg to Ashtabula, Ohio.

Gulf Oil Corporation completed 17 miles of 10-, 12-, and 24-inch somatic-coated oil line from the Delaware River and International Airport, Philadelphia, to the 84th Street tank farm. John Meehan & Son, Philadelphia, contractor.

Harrisburg Gas Company has applied to FPC for permission to lay 16 miles of 8-inch line from Manufacturers Light and Heat Company's line to Maytown to Harrisburg.

Lake Shore Pipe Line Company has applied to FPC for permission to construct a 45-mile gas line from TGT's proposed Kentucky-Buffalo line near Meadville to Ashabula, Ohio. Erie Gas Service Company, Inc., has a similar application before FPC.

The Manufacturers Light and Heat Company completed 10.5-mile, 12-inch gas line from the existing line near Canonsburg to the Pittsburgh area.

New York Natural Gas Corporation completed 31.6 miles of 16-inch line from Rasselas to State Line station. Williams Brothers Corporation, Tulsa, contractor.

New York State Natural Gas Corporation completed 44.2 miles of 16-inch loop from Smetheport, McKean County, to New York State Line station at Genesee. Williams-Austin Company, Pittsburgh, contractor.

Penn-York Natural Gas Corporation has application before FPC for permission to construct 65 miles of 10- and 14-inch from York to Lewiston, N. Y., for exporting gas to Canada.

The Peoples Natural Gas Company completed 38.5 miles of 14-inch pipe from Texas Eastern Transmission Corporation's line northeast of Rockwood to company's 14-inch line northeast of Johnstown. Williams-Austin Company, Pittsburgh, contractor.

Sinclair Refining Company completed 26 miles of 8-inch products line from Marcus Hook to Philadelphia. John Meehan & Son, Philadelphia, and Ralph Hopple Construction Company, Canton, Ohio, contractors.

Socony-Vacuum Oil Company, Inc., completed a 22-mile, 6-inch products line known as Reading Spur extending from Malvern-to-Binghamton line. Midwestern Constructors, Inc., Tulsa, contractor.

United Natural Gas Company completed 13.5 miles of 12-inch from Pugh station to Siegel. Northeastern Construction Company, Harrisburg, contractor.

Tennessee

Alabama-Tennessee Natural Gas Company completed 80 miles of 10-inch from Selmer to Tuscaloosa, Ala. Lehman-Hoge & Scott, Harlingen, Texas, contractor. Company plans to construct a 35.5-mile, 8-inch extension of this line from Muscle Shoals, Ala., to Decatur, Ala.; 26 miles of 6-inch extension from Decatur to Huntsville; 2.7 miles of 10-inch and 3.8 miles of 8-inch laterals to Tennessee

Valley Authority; 10.6 miles of 4-inch and 23.1 miles of 3-inch laterals to serve city-gate customers.

East Tennessee Natural Gas Company has scheduled for 1950 construction 186 miles of 16-inch from TGT's line at Lobelville to Chattanooga, and 112 miles of 12-inch from Chattanooga to Knoxville. 150 miles of 3- to 18-inch laterals will bring gas to many towns between Lobelville and Chattanooga. N. A. Saigh Company, San Antonio, contractor.

East Tennessee Natural Gas Company is planning construction of 150 miles of 16-inch from Knoxville to Bristol.

East Tennessee Natural Gas Company completed 172 miles of 22-inch from TGT's line at Portland to Oak Ridge Atomic Energy plant. Oman Construction Company, Nashville, R. H. Fulton & Company, Lubbock, Texas, Brodie Construction Company, Amarillo, Texas, contractors.

East Tennessee Natural Gas Company is building an 18-mile line between company's Portland Oak Ridge line near Oak Ridge and its proposed Chattanooga-Knoxville line near Knoxville. This will speed up service to Knoxville area, since the Chattanooga-Knoxville line will not be ready until the fall of 1950.

East Texas

Arkansas-Louisiana Gas Company is completing a 162.8-mile, 20-inch project from Waskom field, Harrison County, to Perla, Ark., including submarine crossings of Little Missouri, Ouachita, and Red Rivers. Anderson Brothers Corporation, Houston, is at work on a 72-mile section between Waskom field and Magnolia, Ark.; Latex Construction, Houston, completed the remaining 90.8 miles between Magnolia and Perla.

Arkansas-Louisiana Gas Company completed 12 miles of 3- to 8-inch gathering system in Waskom field. Wood Engineering & Construction Company, Arp, contractor.

C. L. Brown completed a 35-mile, 4-inch line from Fairfield field, Freestown County, to Mexia field, Limestone County.

Coastal Pipe Line Company is considering a 1000-mile gas line from Texas to Virginia.

Mid-Valley Pipeline Company has begun work on its 1000-mile crude line from Longview to Lima, Ohio. Contracts have been let as follows: Haynesville, La., to Mayersville, Miss., 120 miles 20-inch, Latex Construction Company, Houston; Mayersville to Oakland, Miss., 111 miles 22-inch, Associated Pipe Line Contractors, Inc., Houston; Oakland to Henderson, Tenn., 111 miles of 22-inch, Eastern Construction Company, Dallas; Henderson to Clarksville, Tenn., 111 miles of 22-inch, Eastern Construction Company, Dallas; Clarksville to Elizabethtown, Ky., 111 miles of 22-inch, Britton Construction Company, Fort Worth; Elizabethtown to Hebron, Ky., 111 miles of 22-inch, H. L. Gentry Construction Company, Jackson, Mich.; Hebron to Eaton, Ohio, 60 miles of 20-inch, Britton Construction Company, Fort Worth; Eaton to Lima, Ohio, 60 miles of 20-inch, Mahoney Construction Company, Mount Pleasant, Mich.; Magnolia, Ark., to Haynesville, 21 miles of 8-inch, Latex Construction Company, Houston; Delhi, La., to Mayersville, 41 miles of 12-inch, Latex Construction Company, Houston. The Mississippi River crossing at Mayersville, two 20-inch lines, has been completed by Latex Construction Company, Houston; the rest of the project is scheduled for early 1951 completion.

Texas Gas Transmission Corporation has completed most of its 828-mile project from Carthage field to Middletown, Ohio. 103 miles of 20-inch from Carthage field to Lisbon field, La., is still under construction by N. A. Saigh Company, San Antonio, and subcontractors Oklahoma Contracting Company, Inc., Dallas, and Fowler Brothers, Cotton Valley, La. 693 miles of 26-inch from Lisbon field to Middleton has been completed and was contracted as follows: Lisbon to Greenville, Miss., 101 miles, Latex Construction Company, Houston; Greenville to Lula, Miss., 86 miles, O. C. Whitaker Company, Dallas; Lula to Memphis, Tenn., 63 miles, completed in 1948 by N. A. Saigh Company, San Antonio, and J. R. Horrigan Construction Company, Houston; Memphis to Fulton, Ky., 110 miles, J. R. Horrigan Construction Company; Fulton to Slaughters, Ky., 103 miles, Oklahoma Contracting Company, Inc.; Slaughters to Brandenburg, Ky., 85 miles, Williams Bros. Corporation, Tulsa; Brandenburg to Madison, Ind., 65 miles, Williams Bros. Corporation; Madison to Middletown, Ohio, 80 miles, Midwestern Constructors, Inc., Tulsa; Omaha Dredge & Dock Company, Omaha, Neb., did the river crossing construction. Work has not yet begun on a 32-mile, 12-inch lateral from Madisonville, Ky., to Evansville, Ind.

North Texas

Continental Pipe Line Company completed 25 miles of 6-inch crude replacement line from

Little Wichita River station, Archer County, to company's refinery in Wichita County.

Humble Pipe Line Company completed 5.2 miles of 8-inch crude line in Shackelford and Callahan Counties. Royce L. Boyd Company, Inc., Cisco, contractor.

The Texas Pipe Line Company completed 131 miles of 12-inch crude line from Chico field, Wise County, to Corsicana, Navarro County. Smith Contracting Corporation, Fort Worth, contractor.

The Texas Pipe Line Company completed a 36-mile, 8-inch crude line from Upham Station, Jack County, to Chico Station, Wise County. Latex Construction Company, Houston, contractor.

Southwest Texas

Atlantic Pipe Line Company completed a 30-mile, 10-inch crude line from Refugio to Aransas Pass. Subcontracted from Evans & James Construction Company, Little Rock, Ark., by Shanks & Eustace, Alice.

Carthage Hydrocol, Inc., completed 40 miles of 16-inch, 16 miles of 14-inch, and 7 miles of 12-inch gas line from San Salvador, La Blanca, and South Weslaco fields to synthetic gasoline plant at Brownsville. H. B. Zachry Company, San Antonio, contractor.

Humble Pipe Line Company completed 15 miles of 4-inch and 15 miles of 6-inch crude gathering lines in Rita and Sarita fields, Kenedy County.

La Gloria Corporation completed 14 miles of 8- to 26-inch gas gathering system in La Gloria field, Jim Wells County. Altgett Construction Company, Corpus Christi, contractor.

Lavaca Pipe Line Company completed 30 miles of 8- and 10-inch natural gas line in the vicinity of Port Lavaca, Calhoun County. Brown & Root, Inc., Houston, contractor.

Pan American Pipe Line Company completed a 5-mile, 4-inch extension to crude gathering system in Pettus field, Bee County. E. M. Null, Houston, contractor.

Southern Pipe Line Corporation completed 18.1 miles of 6-, 7-, and 8-inch gas line between Edroy field, San Patricio County, and Saret field, Nueces County. Sheppard & Geiger, Corpus Christi, contractor.

Tennessee Gas Transmission Company completed 372.3 miles of looping on its Texas-West Virginia line. Loops were contracted as follows: Cranell to Victoria, 45.5 miles 24-inch, H. C. Price Company, Bartlesville, Okla.; Victoria to Inez, 16.6 miles 30-inch, H. C. Price Company; between Louetta and Negreet, La., 81.8 miles 30-inch, Morrison Construction Company, Inc., Austin; Monroe, La., to Ark-La. line, 57 miles 30-inch, company crews; Greenville, Miss., to Drew, Miss., 49.2 miles 30-inch, H. C. Price Company; Holly Springs, Miss., to Miss.-Tenn. line, 37.8 miles 30-inch, company crews; Miss.-Tenn. line to Selmer, Tenn., 25.4 miles 30-inch, H. C. Price Company; Union City, Ky., to Clay City, Ky., 14.9 miles 30-inch, Anderson Bros. Corporation, Houston; Clay City to Hilda, Ky., 44.1 miles 26-inch, Anderson Bros. Corporation.

Tennessee Gas Transmission Company completed 121 miles of 6- to 16-inch feeder line in Texas and La.

Tennessee Gas Transmission Company has 109 miles of 30-inch loop line under construction, contracted as follows: White Bluff, Tenn., to Jelton, Tenn., 54.2 miles, and Jelton to Glasgow, Ky., 36.1 miles, Morrison Construction Company, Inc., Austin; Union City, Ky., to Buckeye, Ky., 18.1 miles, Anderson Bros. Corporation, Houston.

Tennessee Gas Transmission Company has FPC authorization for construction of the following projects: 395 miles of 26-inch extension from Load Ky., to Buffalo, N. Y.; 707 miles of 30-inch looping from South Texas to Eastern Ky.; 32 miles of 24-inch loop line in South Texas; 52 miles of 26-inch looping in Eastern Ky.; a 44-mile, 16-inch lateral in Pennsylvania; 263 miles of gathering lines in Texas and La. Contracts have not yet been let for these projects.

Transcontinental Gas Pipe Line Corporation has completed 550 miles of its 1840-mile line from the Rio Grande Valley to New York and Brooklyn. Fish Constructors, Inc., Houston, has the master contract. The following contractors have been responsible for the completed portion of the line (all 30-inch): Eunice, La., to Mississippi River, 67 miles, Morrison Construction Company, Austin; Mississippi River to Bassfield, Miss., 112 miles, Morrison Construction Company; Bassfield to Tombigbee River, 112 miles, Wunderlich & Griffis Pipe Line Construction Company, Tulsa; Demopolis, Ala., to Coosa River, Ala., 104 miles, Midwestern Constructors, Inc., Tulsa; Coosa River to Newnan, Ga., 103 miles, Midwestern Constructors, Inc. (this spread not complete); Newnan to Danielsville, Ga., 107 miles, Will-

iams Bros. Corporation, Tulsa. Contracts for line from Danielsville to New York (30-inch to Linden, N. J.) have been let as follows: Danielsville to Spartanburg, S. C., 85.6 miles, Williams Bros. Corporation; Spartanburg to Catawba River, N. C., 103 miles, R. H. Fulton & Company, Lubbock; Catawba River to Spray, N. C., 100 miles, R. H. Fulton & Company; Spray to James River, Va., 86 miles, O. R. Smith Contracting Corporation, Fort Worth; James River to Potomac River, Va., 110 miles, O. R. Smith Contracting Corporation; Potomac River to Susquehanna River, Penn., 75 miles, Associated Pipe Line Contractors, Inc., Houston; Susquehanna River to Delaware River, Penn., 85 miles, Wunderlich & Griffis Pipe Line Construction Company; Delaware River to near Linden, N. J., 41 miles, Wunderlich & Griffis Pipe Line Construction Company; Linden to Hudson River near Edgewater, N. J., 28 miles 26-inch, Oklahoma Contracting Company, Inc., Dallas, and J. R. Horrigan Construction Company, Houston. Contracts have not yet been let for the 521.2-mile portion from Mercedes, Rio Grande Valley, to Eunice. This will consist of 36.4 miles of 10-inch, 41.3 miles of 14-inch, 107.5 miles of 24-inch, 64 miles of 26-inch, 272 miles of 30-inch.

United Gas Pipe Line Company is building 12 miles of 16-inch discharge line from fields in De Witt and Goliad counties to company's Refugio-San Antonio line, and 34 miles of gathering line in these fields. Brown & Root, Inc., Houston, contractor.

United Gas Pipe Line Company is building a 72-mile, 20-inch line from fields in Pettus-Burnell area to Converse; a 19-mile, 16-inch line in the San Antonio vicinity; and a 12-mile, 12-inch line in the Austin vicinity. Brown & Root, Inc., Houston, contractor.

Texas Panhandle

El Paso Natural Gas Company completed a 251-mile, 24-inch line from Dumas to Eunice, N. M.

Michigan-Wisconsin Pipe Line Company completed a 1181-mile natural gas line from Hansford County to Austin gas storage field, Mecosta County, Mich., and Green Bay, Wis. The line consists of 1170 miles of 24-inch, 11 miles of 18-inch, with 310 miles of 2- to 14-inch laterals. J. R. Horrigan Construction Company, Inc., Houston, and Oklahoma Contracting Company, Inc., Dallas, contractors.

Panhandle Eastern Pipe Line Company completed 102 miles of 24- and 26-inch gas loops between Liberal, Kansas, and Emporia, Kansas, on Texas-Mich. line, R. H. Fulton & Company, Lubbock, contractor; 30 miles of 26-inch looping in Miss. and Ohio, Anderson Bros. Corporation, Houston, contractor; 23 miles of 26-inch gas looping in Mo., C. S. Foreman Company, Kansas City, Mo., contractor.

Panhandle Eastern Pipe Line Company completed 23 miles of 4- through 12-inch gathering line in Texas, Okla., and Kansas, Wilson Construction Company, Tulsa, contractor; 93 miles of 4- through 10-inch gathering line in Hugoton field, Reese Bros. Construction Company, Hugoton, Kansas, contractor.

Panhandle Eastern Pipe Line Company is authorized to construct 355 miles of 26-inch "C" facility loops on its Texas-Mich. line.

Phillips Petroleum Company completed 25 miles of 8-inch, 10 miles of 10-inch, 12 miles of 14-inch, 9 miles of 16-inch, 70 miles of 24-inch, and 177 miles of 3- to 24-inch gas gathering lines in Sherman and Hansford counties. Vaughn and Taylor Construction Company, Inc., Wichita Falls, contractor.

Phillips Petroleum Company is building 18 miles of 8-inch products loop between Ottawa and Olath, Kansas, on its Texas Panhandle-Ill. line. Vaughn & Taylor Construction Company, Inc., Wichita Falls, contractor.

Upper Texas Coast

Alamo Refining Company completed 24 miles of 8-inch products line from Sweeny to Freeport. Latex Construction Company, Houston, contractor.

American Republics Corporation completed 22 miles of 6-inch crude oil and gas line in the vicinity of Silsbee. Latex Construction Company, Houston, contractor.

Atlantic Refining Company completed 8.7 miles of 12-, 16-, and 18-inch crude line at company's Port Arthur terminal, Acme Construction Company, Kilgore, contractor.

Dow Chemical Company completed a 15-mile, 4-inch natural gas line in the vicinity of Bay City. Latex Construction Company, Houston, contractor.

Houston Pipe Line Company is building a 14-mile, 12-inch gas line from Crosby to Baytown. L. E. Farley, Inc., Houston, contractor.

Humble Pipe Line Company completed 5 miles of 5-inch and 7.4 miles of 6-inch crude line from Double Bayou field to Anahuac field, Chambers County.

Midland Gasoline Company completed 30 miles of 2- through 20-inch gas gathering system in Conroe field. Gulf Welding Company, Conroe, contractor.

Piedmont Natural Gas Corporation has applied to FPC for permission to build a 1290-mile, 20-inch line from the Gulf Coast to southeastern Va. with a branch to Richmond and one to Norfolk.

Shell Pipe Line Corporation completed 21 miles of 3- and 4-inch gas gathering system in Sheridan field, Colorado County. C. W. Sternberg, Houston, contractor.

Standolind Oil & Gas Company completed 16 miles of 6-inch gas line from Chocolate Bayou and Rowan fields, Brazoria County, to company's gasoline plant at Hastings. W. L. Golightly Construction Company, Houston, contractor.

Sun Pipe Line Company completed 43 miles of 8- and 10-inch crude line between Seabreeze station, near Beaumont, and Port Neches terminal. Sheppard-Geiger Construction Company, Corpus Christi, contractor.

Texas Eastern Transmission Corporation is constructing a 175-mile, 26-inch loop line from Lebanon, Ohio, to Beallsville, Ohio. Brown & Root, Inc., Houston, sublet contract to Associated Pipe Line Contractors, Inc., Houston, which has completed all but 30 miles of a 120-mile line from Lebanon to Lancaster, and to Williams Bros. Corporation, Tulsa, which has completed remainder.

Texas Eastern Transmission Corporation completed 36 miles of 20-inch loop between Castor, La., and Lisbon field, La., on its Texas-N. J. line. Associated Pipe Line Contractors, Inc., Houston, contractor.

Texas Eastern Transmission Corporation is authorized to build 100 miles of 16-inch transmission line from Provident City field to company's Baytown terminal, and 33.5 miles of 20-inch loop in the vicinity of Beaumont.

Texas Eastern Transmission Corporation has an application before FPC for permission to construct 255 miles of 30-inch loop between Lebanon, Ohio, and Connellsburg, Penn., on its Texas-N. J. line; 255 miles of 26-inch transmission from Lamberville, N. J., to Boston, Mass.; 292 miles of laterals from this transmission line to points in Conn., R. I., Mass., and N. H.

Texas Eastern Transmission Corporation has FPC authorization to construct 75 miles of feeder lines to Texas and Louisiana gas fields.

Texas Eastern Transmission Corporation applied to FPC for permission to construct 1420 miles of loops on its Texas-to-New Jersey main line.

Texas Illinois Natural Gas Pipe Line Company has an application before FPC for the construction of 1254 miles of 30- and 26-inch line from southwest of Houston to Joliet, Ill. It also plans to build a 58-mile, 20-inch line from Joliet to Volo, Ill., and a 20-mile, 26-inch lateral from the proposed Houston-Joliet line to Piedmont Natural Gas Corporation's proposed Texas-Va. line near Greenville, Miss.

Texas Pipe Line Company completed 10.8 miles of 10-inch and 2.5 miles of 8-inch crude line from company's Withers station, Wharton County, to Pickett Ridge field, Wharton County. Associated Pipe Line Contractors, Inc., Houston, contractor.

The Texas Pipe Line Company completed 13.5 miles of 6-inch crude line from Blessing Junction, Matagorda County, to Markham station. Sheppard-Geiger Construction Company, Corpus Christi, contractor.

The Texas Pipe Line Company completed 16.2 miles of 6-inch crude line from Chocolate Bayou field to Manvel. Latex Construction Company, Houston, contractor.

West Texas

Arizona Pipe Line Company plans a 620-mile, 8-inch crude line from the Permian Basin to Phoenix, Ariz.

Atlantic Pipe Line Company completed 382 miles of 10-inch crude line from Block 31 field terminal, Crane County, to tie into its Refugio-Harbor Island system at Refugio. Evans & James Construction Company, Little Rock, Ark., contractor.

Atlantic Pipe Line Company completed a 6-mile, 4-inch crude discharge line in Bronte field, Coke County.

Cabot Carbon Company completed 26 miles of 10-inch gas line in the vicinity of Odessa. McVean & Roberts Pipe Line Construction Company, Odessa, contractor.

El Paso Pipe Line Company completed a 110-mile gas line from Plymouth and Slick-Urcheel discovery, Upton County, to Jal, N. M.

Gulf Oil Corporation (Gulf Production Division) completed 50 miles of 3- to 30-inch gas gathering system between Waddell gasoline plant, Crane County, to Odessa. J. J. Willis Construction Company, Odessa, contractor.

Humble Pipe Line Company is constructing a 371-mile, 18-inch crude line from Kemper,

Reagan County, to Satsuma, Harris County. Morrison Construction Company, Inc., Austin, is at work on a 178-mile section from Kemper to Eckart; Anderson Bros. Corporation, Houston, will begin the remaining 193 miles in March, 1950.

Humble Pipe Line Company completed 10 miles of 6-inch crude discharge line in Susan Peak field, Tom Green County.

Humble Pipe Line Company plans construction of an 80-mile crude line from Bronte field, Coke County, to its West Texas trunk system near San Angelo.

Magnolia Pipe Line Company completed a 25-mile, 8-inch crude line from Pegasus field, Midland-Upton County, to its trunk line near Midland. C. L. Rogers Construction Company, Inc., Wichita Falls, contractor.

Magnolia Pipe Line Company completed 25.5 miles of 8-inch crude line from Iatan station to point in Scurry County; 12 miles of 6-inch northeast to North Snyder field; and 30 miles of 3- and 4-inch lateral lines to leases. C. L. Rogers Construction Company, Inc., Wichita Falls, contractor.

Onyx Oil & Refining Company completed 16 miles of 4-inch crude line from Hardy field, Jones County, to its refinery north of Abilene.

Pasotex Pipe Line Company completed 22 miles of 6-inch crude discharge lines from North Snyder field, Scurry County, to Colorado station on Basin Pipe Line System.

Pasotex Pipe Line Company plans a 17-mile, 6-inch crude line from Colorado station, to Coltex Refining Company's Colorado City refinery. This will be an extension to North Snyder field to Basin Pipe Line System line. **Phillips Pipe Line Company** completed 289 miles of 12-inch crude line from Goldsmith field, Ector County, to refinery at Borger. Morrison Construction Company, Inc., Austin, contractor.

Republic Pipe Line Company completed 40 miles of 4-inch crude line from Susan Peak field, Tom Green County, to Shell's line west of Eldorado. Sheppard-Geiger Construction Company, Corpus Christi, contractor.

Shell Pipe Line Corporation plans a 40-mile, 10-inch crude line from its terminal at Mc-Camey to Humble's terminal at Kemper.

Shell Pipe Line Corporation completed a 73-mile crude line from Wasson to Jal, N. M. Smith Contracting Corporation, Fort Worth, built 33 miles of 12-inch from Wasson to Hobbs, N. M., and Latex Construction Company, Houston, built 40 miles of 14-inch from Hobbs to Jal.

Southern Union Gas Company completed a 10-mile, 4-inch gas line between Tippett field, Crockett County, and McCamey, Upton County.

Stanolind Oil & Gas Company completed 165 miles of 2- to 30-inch gas gathering system in Levelland field, Hockley County. Deaton & Sons, Inc., Odessa, contractor.

Stanolind Oil & Gas Company completed a 19-mile, 6-inch product line from its plant in Fullerton field, Andrews County, to Eunice, N. M. Deaton & Sons, Inc., Odessa, contractor.

Stanolind Oil & Gas Company completed 63 miles of 2- through 26-inch gas gathering system in Fullerton field, Andrews County. Deaton & Sons, Inc., Odessa, contractor.

Stanolind Pipe Line Company completed 7.7 miles of 6-inch products line between Slaughter casinghead plant, Hockley County, and company's Slaughter pump station, Hockley County. Crosley and Hardy, Levelland, contractor.

Stanolind Pipe Line Company completed a 9-mile, 4-inch crude line from Jones Ranch field, Gaines-Yoakum County to Wasson field pump station, Yoakum County.

Stanolind Oil & Gas Company completed 25 miles (23 miles coated) of 2- to 22-inch gas gathering system in Fullerton field, Deaton & Sons, Inc., Odessa, contractor.

The Texas-New Mexico Pipe Line Company completed 26 miles of 8-inch crude line running southwest from its Shafter Lake station in Andrews County. Wright Construction Company, Lovington, N. M., contractor.

The Texas-New Mexico Pipe Line Company completed 40 miles of 10-inch crude trunk line from its new pump station in southwest Borden County to the Basin Pipe Line System at Colorado station, southeast Scurry County. Carl H. Dunn, Fort Worth, contractor. Company will build 29 miles of 6-inch extensions from its pump station to Sinclair, Vernalmoore, and Good fields.

The Texas-New Mexico Pipe Line Company completed 16 miles of 6-inch and 5.4 miles of 4-inch crude line from southwest Borden County to northwest Howard County. Wright Construction Company, Lovington, N. M., contractor.

Utah

Mountain Fuel Supply Company completed a 32-mile, 20-inch natural gas line from Coalville to Salt Lake City. Enoch Smith Sons, Salt Lake City, contractors. This line parallels existing 16-inch line.

Salt Lake Pipe Line Company has completed all but 60 miles of its 320-mile, 8-inch products line from Standard of California's Salt Lake City refinery to Boise, Id. Smith Contracting Corporation, Fort Worth, completed 169 miles from Salt Lake City to Burley, Id.; Oklahoma Contracting Company, Dallas, and Grafton-Callahan Construction Company, Los Angeles, contractors for remaining 151 miles, are shut down for the winter with 60 miles incomplete.

Virginia

Commonwealth Natural Gas Corporation has an amended application before FPC for construction of a 200-mile line from Virginia Gas Transmission Corporation's 20-inch line in Greene County to the vicinity of Norfolk. **Eastern Natural Gas Company** has applied to FPC to build a 165-mile line from Standardsville to Norfolk.

Potomac Gas Company is planning an 18-mile, 16-inch line from Dranesville to Arlington.

Roanoke Pipe Line Company has applied for permission to build a 30-mile gas line from Virginia Gas Transmission Corporation's line at Gala to Roanoke.

Virginia Natural Gas Company has applied to FPC for permission to build 153 miles of transmission line from Transcontinental's 30-inch line at Buckingham to Norfolk, and 12.5 miles of laterals.

West Virginia

Atlantic Seaboard Corporation and Virginia Gas Transmission Company completed 268 miles of 26-inch gas line from Clendenin to Rockville, Md. Ray L. Smith & Son, El Dorado, Kan., completed 68 miles from Clendenin to Cleveland, and H. C. Price Company, Bartlesville, Okla., built the remainder of the line.

Hope Natural Gas Company completed a 12.2 mile, 14-inch loop from Shirley, Tyler County, to Hastings, Wetzel County, and a 33-mile, 16-inch loop from Hastings to Clarksburg, Harrison County. Pipe Line Construction and Drilling Company, Camp Hill, Pa., contractor.

United Fuel Gas Company completed 12 miles of 10-inch from Charleston to Branchland and 5 miles of 12-inch near Branchland. Williams-Austin Company, Pittsburgh, contractor.

United Fuel Gas Company plans 12 miles of 10- and 12-inch from TGT's transmission line to storage fields near Nitro and Clendenin.

Wisconsin

Michigan-Wisconsin Pipe Line Company is planning to build 197.5 miles of gas line. Main line will run from Milwaukee to Green Bay with laterals to Fond du Lac and Sheboygan. G. G. Griffis Construction Company, Tulsa, contractor.

Wyoming

Continental Oil Company completed 18 miles of 3- to 8-inch main line and gathering system between Buck Creek field and Lance Creek field, Niobrara County. C. P. Bartley & Son, Lance Creek, contractor.

Frontier Refining Company is planning a 300-mile products line from its refinery at Cheyenne to Omaha, Neb. Pacific Pipe Line Engineers, Ltd., San Francisco, is making engineering study of project.

Montana-Dakota Utilities Company and Montana-Wyoming Gas Pipe Line Company have FPC authorization to build a 340-mile, 12-inch line from Worland field, Washakie County, to Montana-Dakota's Cabin Creek station, Fallon County.

Plains Pipe Line Company completed 50 miles of 8-inch crude line from Mush Creek field, Weston County, to Rocky Mountain Pipe Line Company's line at Lance Creek field. A. W. Hartwig, Inc., Billings, Mont., contractor.

Socony-Vacuum Oil Company, Inc., completed 13.5 miles of 4-inch crude line from Gooseberry Field, Park County, to Ohio Pipe Line Company's station in Hot Springs County. Pacific Pipe Line & Engineers, Ltd., San Francisco, contractor.

Socony-Vacuum Oil Company, Inc., completed 7 miles of 4-inch crude line between South Cole Creek field and existing 4-inch line from Cole Creek field to company's refinery at Casper. C. P. Bartley & Son, Lance Creek, contractor.

Socony-Vacuum Oil Company, Inc., is planning a 122-mile, 8-inch crude line from Big Horn Basin to Casper.

Stanolind Pipe Line Company completed 14 miles of 8-inch crude line from Sussex field, Johnson County, to company's Salt Creek station, Natrona County.

SKIRVIN HOTELS

Welcome

to the Skirvin

Oklahoma City

One Of The Nation's
Traditionally Fine Hotels.

Crude Oil Pipe Line Activity in 1950

Arkansas

Pan-Am Southern Corporation completed seven miles of eight-inch loop on a six-inch line between Schuler and El Dorado.

California

Richfield Oil Corporation completed 115 miles of 14-inch between Wilmington and Wheeler, and 40 miles of ten-inch between Wheeler and Cuyama Valley field. Alex Robertson Company, Bakersfield, was contractor on the 80 miles from Wilmington to Newhall.

Illinois

Globe Oil Refining Corporation completed five miles of 12-inch near Lemont. O. R. Burden Construction Corporation, Tulsa, was contractor.

The Ohio Oil Company is building 362 miles between Wood River and Lima, Ohio. Bechtel Corporation, San Francisco, is at work on 54 miles of 20-inch from Wood River to Patoka, and Conyes Construction Corporation, San Pablo, Calif., is building 172 miles of 20- and 22-inch from Vandalia to Ohio's Harlos Gate plant near Sheridan, Ind.

Texas-Empire Pipe Line Company completed 42 miles of 16-inch loop line between Wilmington and Gary, Ind. O. R. Burden Construction Corporation, Tulsa, was the contractor.

Texas Pipe Line Company completed 42 miles of 12-inch from Patoka to Clay City. L. R. Young Construction Company, Olney, was the contractor.

Louisiana

Interstate Oil Pipe Line Company completed six miles of four-inch gathering system in Athens field, Claiborne Parish. J. C. Moore, Magnolia, Ark., was the contractor.

Interstate Oil Pipe Line Company completed eight miles of three- and four-inch line from Humble Oil & Refining Company's gasoline plant at Opelousas to Interstate's line near Sunset. Townsend Construction Company, Bunkie, was the contractor.

Magnolia Pipeline Company completed 30 miles of four- through ten-inch gathering system at Holly Beach and Mud Lake. J. R. Stewart Construction Company, Houston, was the contractor.

Pelican Oil Purchasers, Inc., completed 55 miles of six-inch in the vicinity of Sulphur. Anderson Bros. Corporation, Houston, was the contractor.

Maine

Portland Pipe Line Corporation completed 166 miles of 18-inch from Portland to the Canadian border at North Troy, Vt. Oklahoma Contracting Company, Dallas, built 85 miles between Portland and Gorham, N. H., and Associated Pipe Line Contractors, Inc., Houston, built the remaining 81 miles. A 70-mile stretch from the border to Montreal was built for Montreal Pipe Line Company by Fred Mannix & Company, Ltd., Calgary, Alberta.

Michigan

Naph-Sol Refining Company completed a 12-mile, four-inch line from Paris field, Mecosta County, to Woodville. L. R. Young Construction Company, Olney, was the contractor.

Naph-Sol Refining Company completed 26 miles of six-inch between Kimbell field, Newaygo County, and Muskegon. L. R. Young Construction Company was the contractor.

Minnesota

Lakehead Pipe Line Company completed 360 miles of 18-inch from Gretna, Manitoba, to Superior, Wis. Anderson Bros. Corporation, Houston, was the contractor. This forms the last lap of a 1150-mile line from Edmonton, Alberta, to Superior, Wis. The Canadian portion was built by Interprovincial Pipe Line Company.

Mississippi

Gulf Refining Company plans construction of a 200-mile, 16-inch line from the Heidelberg-Eucauta district of Jasper County to Mobile, Ala., via Baxerville field.

Interstate Oil Pipe Line Company completed seven

miles of four-inch gathering line in Bude field, Franklin County. Clyde A. Hust, Laurel, was the contractor.

New Mexico

Basin Pipe Line System plans to increase the capacity of its line between Colorado City and Wichita Falls, Texas, from 250,000 to 350,000 barrels per day, and between Wichita Falls and Cushing, Okla., from 270,000 to 385,000 bpd. Four new booster stations and additional tankage at Colorado City will be installed.

Ohio

Buckeye Pipe Line Company completed a 23-mile, eight-inch line between Sylvania and Monroe, Mich. Bills & Troth Construction Company, Tulsa, was the contractor.

Oklahoma

Ozark Pipe Line System plans to increase its capacity 68,000 barrels per day by building five pump stations at Wildhorse and Fairland, Okla., and Lawrenceburg, Swedeborg, and Labadie, Mo.

Sinclair Pipe Line Company is planning a 700-mile, 22-inch line from Drumright to Chicago. The line, including six pump stations, will cost \$48 million and will have a capacity of 145,000 bpd.

East Texas

American Petroleum Company completed 11 miles of eight-inch between Sour Lake and Arriola. Latex Construction Company, Houston, was the contractor.

Mid-Valley Pipeline Company completed a 1000-mile, 20- and 22-inch line from Longview to Lima, Ohio. Sixty-nine miles of 20-inch from Longview to Benton were built by O. R. Burden Construction Corporation, Tulsa; 41 miles of 20-inch from Benton to Haynesville, La., by Latex Construction Company, Houston; 120 miles of 20-inch from Haynesville to Maverville, Miss., by Latex Construction Company; 111 miles of 22-inch from Maverville to Oakland, Miss., by Associated Pipe Line Contractors, Inc., Houston; 111 miles of 22-inch from Oakland to Henderson, Tenn., by Houston Contracting Company, Houston; 111 miles of 22-inch from Henderson to Clarksville, Tenn., by Eastern Construction Company, Dallas; 111 miles of 22-inch from Clarksville to Elizabethtown, Ky., by Britton Construction Company, Fort Worth; 111 miles of 22-inch from Elizabethtown to Hebron, Ky., by H. L. Gentry Construction Company, Jackson, Miss.; 120 miles of 20-inch from Hebron to Lima, Ohio, by Mahoney Construction Company, Mount Pleasant, Mich.

Sun Pipe Line Company completed a 16-mile, six-inch line from Nona Mills field, Hardin County, to Saratoga, Joe Tisworth, Kilgore, Texas, was the contractor.

North Texas

The Texas Pipe Line Company is building 56 miles of 12-inch from Chico station in Wise County to Wichita Falls. R. H. Fulton & Company, Lubbock, Texas, started in November.

Southwest Texas

Continental Oil Company is building 40 miles of two- through eight-inch gathering system in Albert West field, Live Oak County. F. M. Reising, Edinburg, is the contractor.

Texas Panhandle

Amarillo Oil Company built 12 miles of ten- and 12-inch across the Canadian River north of Amarillo. Brodie Construction Company, Amarillo, was the contractor.

Phillips Pipe Line Company will build 281 miles of ten-inch from Borger to Yale, Okla. This will bridge the gap between existing lines and will make it possible to move West Texas and Panhandle crude to Phillips refineries at Kansas City and Okmulgee, Okla.

Upper Texas Coast

Magnolia Petroleum Company completed 60 miles of four- through 24-inch gathering system in La Ward and Lolita Fields. Henry L. Lemons & Company, Corpus Christi, was the contractor.

Ohio Oil Company completed 20 miles of three- through ten-inch gathering line in North Markham field. Sheppard & Geiger Construction Com-

pany, Corpus Christi, was the contractor.

Phillips Petroleum Company completed 55 miles of six- and eight-inch from Sweeny to Humble's station at Webster. O. R. Burden Construction Corporation, Tulsa, was the contractor.

West Texas

Gulf Oil Corporation, Cities Service Company, The Pure Oil Company, Sun Oil Company, and Standard Oil Company of Ohio plan to build 440 miles of 24- and 26-inch line to carry West Texas crude to the Gulf Coast. The 26-inch portion, with a capacity of 300,000 barrels per day, will run from Colorado City, Mitchell County, to Wortham, Freestone County. A 24-inch line will carry some of the crude to Sour Lake, near the Beaumont-Port Arthur refining district, while the remainder will be fed into Mid-Valley Pipe Line Company's system at Longview and moved to the Sohio refinery at Lima, Ohio.

Gulf Refining Company completed a 30-mile, eight- and ten-inch line from Roscoe station to Snyder, Scurry County. Latex Construction Company, Houston, was the contractor.

Humble Pipe Line Company completed a 371-mile, 18-inch line from Kemper to Satsuma. Morrison Construction Company, Inc., Austin, built 178 miles from Kemper to Eckert, and Anderson Bros. Corporation, Houston, built the remaining 193 miles.

Humble Pipe Line Company completed a 32-mile, eight-inch line from Fort Chadbourne field to its Ballinger station. Morrison Constructors, Odessa, was the contractor.

Magnolia Pipe Line Company finished 22 miles of eight-inch in Howard and Scurry counties. Shanks & Eustace, Alice, was contractor.

Magnolia Pipe Line Company completed 50 miles of 12-inch in four loops between Colorado City and Hillsboro. Bishop & Lock Construction Company, Dallas, was the contractor.

Pan American Pipe Line Company completed 80 miles of ten-inch from southern Scurry County to Humble Pipe Line Company's system at San Angelo. Brown & Root, Inc., Houston, was contractor.

Pan American Pipe Line Company completed 23 miles of four- and six-inch gathering system in the vicinity of Snyder. W. L. Golightly Construction Company, Houston, was the contractor.

Progress Pacific Pipe Line Company is seeking the approval of Petroleum Administration for Defense of a 1050-mile, 24-inch line from West Texas to Long Beach, Calif., paralleled by a ten-inch products line. Capacity of the crude line would be 250,000 barrels per day, of the products line, 65,000. Estimated cost of the entire project is \$120 million.

Shell Pipe Line Corporation completed 40 miles of ten-inch between Shell's terminal at McCamey and Humble's terminal at Kemper. McVean & Roberts, Odessa, was the contractor.

Stanolind Pipe Line Company completed a 36-mile, eight-inch line from its Post pumping station in Garza County to Cogdell field, Kent County. Smith Contracting Corporation, Fort Worth, was the contractor.

Texas-New Mexico Pipe Line Company announced plans for the construction of 37 miles of ten-inch from Basin Pipe Line Company's Colorado City station into southwestern Kent County. Sixteen miles from Colorado City to lines extending from Diamond "M" and Sharon Ridge pools in Scurry County have been completed by O. R. Burden Construction Corporation, Tulsa.

West Coast Pipeline Company plans to build 1100 miles of 20-inch from Monahans, in the Permian Basin, to Los Angeles. The line, with a capacity of 200,000 barrels per day, could be used for products if necessary.

Wyoming

General Petroleum Corporation completed 14 miles of four-inch between Gooseberry field and Grass Creek field.

Ohio Oil Company is planning 22 miles of 12-inch from Elk Basin field to Byron.

Platte Pipe Line Company is planning to build a 1078-mile line from Worland to Wood River, Ill. The 140 miles from Worland to Casper will be 16-inch and 938 miles from Casper to Wood River will be 20-inch.

Service Pipe Line Company completed 32 miles of three- through eight-inch from Beaver Creek field to its Lost Cabin line. Vaughn & Taylor Construction Company, Inc., Wichita Falls, Texas, was contractor.

Products Pipe Line Activity in 1950

Arkansas

Triangle Pipe Line Company plans to build 100 miles of ten-inch to extend its Carthage-El Dorado line to the Mississippi River.

Colorado

Phillips Petroleum Company completed 155 miles of six-inch between La Junta and Denver. Cheek Construction Company, Ulysses, Kansas, was the contractor.

Idaho

Salt Lake Pipe Line Company completed a 240-mile line from Boise to Pasco, Wash. Morrison-Knudsen Company, Inc., Macco Corporation, and Bechtel Corporation, San Francisco, built 120 miles of eight-inch from Boise to Baker, Ore., and Pacific Pipeline & Engineers, Ltd., San Francisco, built 120 miles of six-inch from Baker to Pasco.

Salt Lake Pipe Line Company finished a 63-mile, eight-inch line from Mountain Home to Boise. Oklahoma Contracting Corporation, Dallas, was the contractor.

Illinois

Texas Pipe Line Company will build a 56-mile, ten-inch line between Lawrenceville and Mount Vernon, Ind. O. R. Burden Construction Corporation, Tulsa, has the contract.

Kansas

Phillips Petroleum Company completed 18 miles of eight-inch loop line in the vicinity of Ottawa and Olathe. Vaughn & Taylor Construction Company, Inc., Wichita Falls, was the contractor.

Louisiana

Plantation Pipe Line Company awarded contract to Williams Bros. Corporation, Tulsa, to construct 432 miles of 18-inch from Baton Rouge to Bremen, Ga., and 275 miles of 14-inch from Bremen to Charlotte, N. C.

New Jersey

Tuscarora Oil Company, Ltd., is replacing its 360-mile line between Linden, N. J., and Pittsburgh with 10- and 12-inch pipe. Four large pumping stations will replace nine old ones, and the present capacity of 25,000 barrels per day will be raised to 45,000 with a potential of

80,000. Pipeline Construction & Drilling Company, Camp Hill, Penn., built 50 miles of ten-inch in the vicinity of Ebensburg, Penn., and 56 miles of 12-inch between Reading and Harrisburg, Penn. The program is to be completed in 1952.

Ohio

Essaness Corporation (Sohio Petroleum Company and Shell Oil Company) completed a 57-mile, eight-inch line from Springfield to Lima. Tulsa Construction Company, Inc., Tulsa, was the contractor. Essaness will acquire Shell's Springfield-Columbus line and Sohio's Springfield-Dayton and Lima-Toledo lines.

Miami Valley Corporation (Sohio and The Pure Oil Company) built a 58-mile, eight-inch line from Cincinnati to Dayton. Ohio Pipe Line Construction Company, Inc., Indianapolis, was the contractor. A pump station at Dayton is operated by Sohio.

Susquehanna Pipe Line Company completed 125 miles of eight-inch from Sun Oil Company's refinery at Toledo to Sarnia, Ontario. H. L. Gentry Construction Company, Jackson, Mich., was the contractor.

Oklahoma

Great Lakes Pipe Line Company completed 663 miles of 12-inch between Tulsa and Saint Paul, Minn. Contracts were let as follows: 236 miles from Tulsa to Kansas City were built by Engineers Limited Pipeline Company, Los Angeles; 190 miles from Kansas City to Des Moines, Iowa, were built by Trojan Construction Company, Inc., Oklahoma City; Brodie Construction Company, Amarillo, Texas, and R. H. Fulton & Company, Lubbock, Texas; 112 miles from Des Moines to Mason City, Iowa, were completed by O. R. Burden Construction Corporation, Tulsa, and A. C. Holder Construction Company, Tulsa; 125 miles from Mason City to Saint Paul were laid by A. C. Holder Construction Company and Sheehan Pipe Line Construction Company, Tulsa.

Great Lakes Pipe Line Company completed 165 miles of 12-inch between Irvington, Neb., and Sioux Falls, S. D. Forty-seven miles from Irvington to Decatur, Neb., were built by Trojan Construction Company, Oklahoma City; 42 miles

from Decatur to Sioux City, Iowa, by A. C. Holder Construction Company, Tulsa; 38 miles from Sioux City to Hawarden, Iowa, by G. G. Griffis Construction Company, Tulsa; and 39 miles from Hawarden to Sioux Falls by Midwestern Constructors, Inc., Tulsa.

Great Lakes Pipe Line Company completed a 193-mile, 12-inch line from Barnsdall to Kansas City paralleling a recently-completed 12-inch line and three eight-inch lines. Forty-eight miles from Barnsdall to Independence, Kansas, were built by Sparling, Fowler, Murphy Company, Inc., Bartlesville; 50 miles from Independence to Humboldt, Kansas, by Engineers Limited Pipeline Company, San Francisco; 53 miles from Humboldt to Paola, Kansas, by A. C. Holder Construction Company, Tulsa; 42 miles from Paola to the Kaw River near Kansas City by Engineers Limited Pipeline Company.

Great Lakes Pipe Line Company completed a 54-mile, 12-inch line between Ponca City and Barnsdall, Okla. A. C. Holder Construction Company, Tulsa, was the contractor.

Great Lakes Pipe Line Company completed 45 miles of eight-inch from Cushing to Tulsa. Trojan Construction Company, Oklahoma City, was the contractor.

Great Lakes Pipe Line Company completed 142 miles of 12-inch from Atchison, Kansas, to Omaha, Neb. Midwestern Constructors, Inc., Tulsa, was the contractor.

Pennsylvania

Penn-York Pipe Line Company plans to start in March 410 miles of 10- and 14-inch. Two lines will run from Philadelphia and New York to the Allentown-Scranton area, and a single line north to Binghamton, Syracuse and Rochester.

Upper Texas Coast

Dow Chemical Company completed a 66-mile, six-inch line between Freeport and Katy. Barry Construction Company, Houston, was contractor. **Shell Pipe Line Corporation** completed 19 miles of four-inch between Englehart field and Provident City.

United States Pipe Line Company plans to start early in 1951 a 965-mile common-carrier from the Houston-Beaumont refining area to St. Louis and Chicago.

Natural Gas Pipe Line Activity in 1950

Alabama

Alabama-Tennessee Natural Gas Company completed 35 miles of eight-inch between Muscle Shoals and Decatur. Lehman, Hoge & Scott, Harlingen, Texas, was the contractor. Alabama-Tennessee plans to extend this line 26 miles to Huntsville.

City of Florence is building 84 miles of one-through eight-inch distribution line in the city. Modern Welding Company, Owensboro, Ky., is the contractor.

South Central Alabama Natural Gas Company, Inc., has application before FPC for permission to build a 150-mile line to serve southeastern Alabama municipalities from Southern Natural Gas Company's line in Elmore County.

Arizona

Nevada Natural Gas Pipe Line Company applied for permission to build 114 miles of ten-inch and seven miles of four-inch from the east bank of the Colorado River near Topock north to Las Vegas, Nev. Gas will be taken from El Paso Natural Gas Company and sold to distributing companies in Needles, Calif., and Boulder City and Las Vegas, Nev.

Arkansas

Arkansas Power & Light Company will build a 30-mile, 12-inch line from Forest City to Helena. Tulsa Construction Company has been awarded the contract.

Crossett Lumber Company has asked permission to construct a 30-mile, eight-inch line to bring gas to its plant at Crossett from Arkansas Louisiana Gas Company's line in Union County, Ark. Arkansas Louisiana will operate the line. Mid-South Gas Company asked FPC authorization to build 240 miles of pipe to carry gas to 21 communities in northwest Arkansas. Plans include the acquisition from Arkansas Power & Light Company of 26 miles of main line plus distribution systems in 20 towns in eastern Arkansas.

California

Coast Counties Gas & Electric Company completed ten miles of ten-inch between Watsonville and Gilroy. M. G. M. Construction Company, Concord, was the contractor.

Pacific Gas & Electric Company completed a 506-mile, 34-inch line from El Paso Natural Gas Company's facilities at Needles to Pacific's Milpitas terminal. Pacific has authority to increase capacity of the line (now 250 Mcmcf) to 400

Mmcf. Bechtel-Price-Conyes, San Francisco, was the contractor.

Southern California Gas Company completed 80 miles of 30-inch loop between Whitewater and Puente, increasing the capacity of its Texas-California line from 305 to 405 Mmcf. Midwestern Constructors, Inc., Tulsa, Johnson Western Gunite Company, San Pedro, and L. E. Dixon Company, San Gabriel, were contractors.

Southern Counties Gas Company completed five miles of four-inch from Santa Monica to Malibu Beach. Signal Pipe Line Construction Company, Los Angeles, was the contractor.

Colorado

City of Trinidad has FPC permission to build 35 miles of eight-inch connecting the city with Colorado Interstate Gas Company's facilities. A distribution system will be built in Trinidad. Colorado-Wyoming Gas Company completed a 27-mile, ten-inch loop from Boulder Junction to Mesa station. Vaughn & Taylor Construction Company, Inc., Wichita Falls, Texas, was contractor.

Grand Valley Pipeline Company plans a 60-mile line to carry gas from Pinceance Creek field to Grand Junction and other communities along the Colorado River.

Connecticut

Northeastern Gas Transmission Company has been given FPC authorization to build 511 miles of line to serve markets in Massachusetts, Connecticut, and New Hampshire.

Northeastern Gas Transmission Company has applied for permission to extend its authorized system to provide service to all New England towns and communities which Algonquin Gas Transmission Company proposes to serve, and to a number of additional communities in Massachusetts, eastern New Hampshire, and Maine. It would build approximately 441 miles of additional lines and an 800-hp compressor station. The proposed system would have a delivery capacity of 414 Mmcf. Northeastern has also asked FPC approval of the substitution of 24-inch pipe for the 20-inch previously authorized on the 144 miles of the main system between the New York-Massachusetts state line near Pittsfield, Mass., and Boston.

Delaware

Delaware Power and Light Company completed ten miles of 12-inch from the Delaware-Penn-

sylvania line to Wilmington. George & Lynch, Wilmington, was the contractor.

Georgia

Georgia Natural Gas Company asked for permission to build a 335-mile line from Southern Natural Gas Company's facilities near Phenix City, Ala., to Tallahassee.

South Georgia Natural Gas Company has an application pending for permission to construct a 527-mile line from Southern Natural's system in northern Georgia into Florida. The proposed line may be connected with Transcontinental Gas Pipe Line Corporation's line, in which case an additional 53 miles of pipe will be required.

Illinois

Egyptian Natural Gas Company has FPC authorization to build 40 miles of eight-inch from Norris City to Mount Vernon, and 40 miles of six-inch from Mount Vernon to Centralia and Salem.

Illinois Gas Company is building 18 miles of six-inch and 12 miles of eight-inch in the vicinity of Olney. L. R. Young Construction Company, Olney, is the contractor.

Interstate Power Company applied for authority to build 26 miles of eight-inch from a connection with the facilities of Natural Gas Pipeline Company of America near Hooppole to Clinton, Iowa.

Indiana

Citizen's Gas & Coke Utilities Company is building 26 miles of 16-inch from Panhandle Eastern Pipe Line Company's main line near Zionsville to Indianapolis. Williams Bros. Construction Company, Tulsa, is the contractor.

Northern Indiana Fuel & Light Company asked FPC authority to build 31 miles of eight-inch to serve communities in northeastern Indiana from a connection with Panhandle Eastern Pipe Line Company's line.

Southern Indiana Gas & Electric Company is building 12 miles of 12-inch in the Evansville area. L. R. Young Construction Company, Olney, Ill., is the contractor.

Iowa

Northern Natural Gas Company completed 37 miles of ten-inch between Ames and Marshalltown. Knupp Construction Company, Inc., Great Bend, Kansas, was the contractor.

Northern Natural Gas Company is building 25

miles of six-inch near Lohrville, and six miles of eight-inch near Fort Dodge. Bills & Troth Construction Company, Tulsa, is doing the work.

Kansas

Cities Service Gas Company completed 50 miles of four- to ten-inch gas line in Grant and Stanton Counties. J. E. Carlson & Sons, Pampa, Texas, was the contractor.

Hugoton Production Company completed 14 miles of four- to ten-inch in the Hugoton field. Reese Bros. Construction Company, Hugoton, Kansas, was the contractor.

Kansas Nebraska Natural Gas Company has FPC authorization to increase its capacity in Kansas and Nebraska to approximately 146 Mcmcf by replacing 47 miles of line with larger pipe, by building six miles of 12-inch loop on an existing 12-inch line southwest from Palco, and by installing 1640 horsepower in existing stations.

Northern Natural Gas Company completed 442 miles of 26-inch and 155 miles of 20-inch loop line between the Texas Panhandle and Minnesota. Loop 1—40 miles of 26-inch northward from a point 29 miles north of Skellytown, Texas; Loop 2—75 miles of 26-inch from the Beaver, Okla., station; Loop 3—33 miles of 26-inch from the Mullinville station; Loop 4—73 miles of 26-inch from Bushton to Concordia; and Loop 5—155 miles of 20-inch from Garden City to Bushton, were built by R. H. Fulton & Company, Lubbock, Texas. Loop 6—43 miles of 26-inch from a point 29 miles northeast of Palmyra, Neb., to Oakland, Iowa; and Loop 7—66 miles of 26-inch northward from Oakland, were built by Midwestern Constructors, Inc., Tulsa. Loop 8—31 miles of 26-inch southwest from Ventura, Iowa; Loop 9—41 miles of 26-inch northward from Ventura; and Loop 10—40 miles of 26-inch beyond Loop 9, were built by Mary Construction Company, Cape Girardeau, Mo.

Northern Natural Gas Company completed 99 miles of four- through ten-inch in the vicinity of Ulysses, Hugoton, and Garden City, Kansas. Reese Bros. Construction Company, Hugoton, was the contractor.

Northern Natural Gas Company completed 63 miles of four-, six-, and 12-inch gathering lines in the Hugoton field. Cheek Construction Company, Ulysses, Kansas, was the contractor.

Northern Natural Gas Company completed 24 miles of 20- and 24-inch between Sublette and Plains Natural Gas Company's system in the Hugoton field. R. H. Fulton & Company, Lubbock, Texas, was the contractor.

Northern Natural Gas Company completed 44 miles of four- through 12-inch gathering system in the vicinity of Garden City. R. H. Fulton Company, Lubbock, was the contractor.

Phillips Petroleum Company is building 39 miles of eight-inch and 11 miles of ten-inch loops between Lyons and Kansas City. C. H. Graag Construction Company, Britton, Okla., is the contractor.

Kentucky

Central Kentucky Natural Gas Company completed a 41-mile, 20-inch loop from North Means to Foster which will raise the capacity of the system from 191,500 mcf to 229,500 mcf. Williams-Austin Company, Pittsburgh, was the contractor.

Madison Utilities Corporation has FPC authorization to build eight miles of four-inch to connect its system with Tennessee Gas Transmission Company's main line in Carroll County.

Louisiana

Arkansas-Louisiana Gas Company completed 21 miles of eight-inch between East Haynesville field and Arkansas Fuel Oil Company's gas-treating plant in Columbia County, Ark. Snelling Company, Shreveport, was the contractor.

Arkansas-Louisiana Gas Company has been authorized to install 7000 hp in its Blanchard compressor station, to bring the capacity up to 109 Mcmcf.

Atlantic Gulf Gas Company asked FPC to approve construction of a 1731-mile line from Eastern Louisiana to Georgetown, S. C., with a branch from Albany, Ga., to Jacksonville, Fla. Transmission line will be 12- to 30-inch; 1000 miles of laterals will range from two- to 18-inch.

Deep South Gas Company completed a 12-mile, four-inch gathering system between Rosedale and Irwinville. Carruth Pipeline Corporation, Baton Rouge, was the contractor.

Delta Power & Gas Company plans a line from Big Point field, St. Tammany Parish, to Plaquemines Parish. This line would connect at Big Point field with Louisiana Natural Gas Company's proposed line from Tepete field.

Gaylord Container Corporation completed 26 miles of eight-inch from Baxterfield to its plant at Bogalusa. Carruth Pipeline Corporation, Baton Rouge, is the contractor.

Louisiana Natural Gas Company will build a line approximately 145 miles long from Tepete field, Acadia Parish, to Big Point field, St. Tammany Parish. The line will connect at Big Point field with Delta Power & Gas Company's line from

Plaquemines Parish to form the largest intra-state gas system in the south.

Marine Gathering Company will build a ten-mile, eight-inch line from Pure's Rollover field in the Gulf of Mexico to the Louisiana mainland where the gas will be delivered to TGT. Submarine Pipeline Construction Company, Houston, was awarded the contract.

Mississippi River Fuel Corporation completed in October 40 miles of 20-inch from Dubach to Perryville. Mary Construction Company, Cape Girardeau, Mo., was the contractor.

Mississippi River Fuel Corporation has asked FPC authority to increase its capacity to 435 Mcmcf by building a new 5500-hp station and installing 22,000 hp in eight previously-authorized stations. **Trunkline Gas Supply Company** is building a 740-mile line from Longville to Panhandle Eastern Pipe Line Company's Tuscola, Ill., compressor station, with supply laterals to Texas and Louisiana Gulf Coast fields. Houston Contracting Company will build 176 miles of 26-inch from Longville to Darnell, and a 59-mile, 10- and 16-inch lateral from Longville to southwest Louisiana. Anderson Brothers Corporation, Houston, has the contract for 180 miles of 26-inch from Darnell to Senatobia, Miss., and a 217-mile, 24-inch lateral from Garwood, Texas, to Longville. R. H. Fulton & Company, Lubbock, Texas, will build 184 miles of 26-inch from Senatobia to Joppa, Ill., and a 262-mile, 20-inch lateral from McAllen to Altair, Texas. E. J. Mahoney Contracting Company, Mount Pleasant, Mich., will lay 186 miles of 26-inch from Joppa to Tuscola.

United Gas Pipe Line Company has applied for authorization to construct 1005 miles of new pipe line including: 451 miles of 30-inch, 6 miles of 26-inch, 53 miles of 24-inch from Agua Dulce field, Texas, to the Monroe area; 212 miles of 30-inch, 13 miles of 26-inch, 4 miles of 24-inch, 16 miles of 20-inch from The Pure Oil Company's platform off the Louisiana coast to United's Jackson, Miss., station; 215 miles connecting the proposed 30-inch line with various producing areas and extending to Kosciusko, Miss., where United will deliver gas to Texas Eastern; 24 miles of 8-, 12-, and 16-inch connecting various fields in southern Louisiana with the proposed facilities. The building of these lines would initially increase United's capacity by 850 Mcmcf.

United Gas Pipe Line Company was authorized to build 8 miles of 8-inch, 9 miles of 12-inch, and 68 miles of 16-inch connecting gas fields in Plaquemines Parish with pipe line facilities near New Orleans.

United Gas Pipe Line Company is planning a 224-mile line from southeastern Louisiana fields to the terminus of Atlantic Gulf Gas Company's proposed Louisiana-South Carolina-Florida line. FPC reopened proceedings in July.

United Gas Pipe Line Company applied for FPC approval of 12 miles of 14-inch extending from Pure's platform off the Louisiana Gulf coast southwesterly to a platform operated by Magnolia Petroleum Company, Continental Oil Company, and Newmont Oil Company; and 14 miles of ten-inch running south from this platform to another platform operated by Magnolia, Continental and Newmont.

United Gas Pipe Line Company applied for permission to construct 11 miles of 12-inch between Soso field and Sherron field, Jasper County, Miss., and 51 miles of 12-inch from these fields to the Mississippi Power Company plant near Meridian, Miss.

United Gas Pipe Line Company has FPC approval to build a 16-mile, 16-inch line from its Koran gasoline plant site in Webster and Bossier parishes to its Carthage-Sterlington line in Bienville Parish.

United Gas Pipe Line Company completed 23 miles of 16-inch from Mud Lake field, Cameron County to Gulf Refining Company's plant at Port Arthur, Texas. Texas-Southern Contracting Company, Fort Worth, was contractor.

United Gas Pipe Line Company completed a 106-mile, 20-inch loop on its Carthage-Sterlington line from De Soto Parish to Monroe, O. C. Whitaker Company, Fort Worth, was contractor.

United Gas Pipe Line Company completed 25 miles of 16-inch loops between Luling and Cut Off, J. Ray McDermott & Company, Inc., Harvey, was the contractor.

United Gas Pipe Line Company built 16 miles of 16-inch from its Carthage-Sterlington line to Koran. Fowler Brothers Contractors, Minden, was the contractor. This line, including a 4000-hp compressor station at Koran, will carry a maximum of 100 Mcmcf daily from the Sligo field into United's Carthage-Sterlington line.

Maryland

Prince George's Gas Corporation completed 20 miles of 22-inch to its Chillum compressor station from Atlantic Seaboard Corporation's line at Rockville. Holland Construction Company, Tulsa, was the contractor.

Michigan

Dow Chemical Company completed 27 miles of 12-inch between Midland and Loomis. Mahoney Contracting Company, Mount Pleasant, was the contractor.

Michigan Consolidated Gas Company has an application pending for authority to build a 140-mile, 24-inch loop from the Austin storage field to Detroit, 30 miles of 24-inch from the Austin to the Lincoln-Freeman storage field, and 21 miles of 24-inch from Austin to Reed City storage field.

Michigan Gas & Electric Company completed a ten-mile, six-inch line from Michigan-Wisconsin Pipe Line Company's 22-inch line to Holland, Somerville Construction Company, Ada, was the contractor.

Michigan Gas Storage Company completed 84 miles of 22-inch from Saint Johns to the Winterfield and Cranberry Lake storage fields. This is a continuation of the 75 miles built in 1949 from Panhandle Eastern Pipe Line Company's Chelsea terminal to Saint Johns. E. J. Mahoney Contracting Company, Mount Pleasant, was the contractor.

National Utilities Company of Michigan completed 50 miles of four-through ten-inch laterals serving Grand Haven, Allegan, South Haven, Benton Harbor, and Coldwater from Michigan-Wisconsin's 24-inch line. E. J. Mahoney Contracting Company was the contractor.

Southeastern Michigan Gas Company has been granted permission to lay a 55-mile, 12-inch line from Panhandle Eastern's system in Oakland County to Marysville, for distributing gas in Macomb and Saint Clair Counties.

Mississippi

Carthage Natural Gas District of Mississippi has approval to build 16 miles of four-inch to connect Carthage to Southern Natural Gas Company's system. Hyde Construction Company, Jackson, has the contract.

Chickasawhay Natural Gas District of Mississippi plans a 37-mile, six-inch line from Waynesboro to Transcontinental Gas Pipe Line Corporation's line at Stonewall. Hyde Construction, Jackson, will build it.

Cities of Ripley, Booneville, and Baldwyn have FPC authorization to connect their proposed facilities with Tennessee Gas Transmission Company's line. They will build 16 miles of six-inch from TGT's line to Ripley, and 22 miles of six-inch from Ripley towards Booneville and Baldwyn with a five-mile tap line to Baldwyn and Wheeler and a six-mile tap line to Booneville.

DeSoto Natural Gas District of Mississippi is building 24 miles of four-inch from Texas Gas Transmission Corporation's system at the Mississippi-Tennessee state line to Coldwater. Line will serve the towns of Hernando, Horn Lake, Neshoba, and Coldwater. Hyde Construction Company, Jackson, is the contractor.

Mississippi Power & Light Company asked permission from FPC to build 13 miles of four-inch between Pace and Rosedale, and 21 miles of four-inch southward from Coldwater.

North Central Natural Gas District of Mississippi has approval to build a 98-mile line to serve various Mississippi towns from Southern Natural Gas Company's system. Distribution facilities will be built in towns and will be leased to Mississippi Gas Company for operation.

Southern Natural Gas Company is at work on a 496-mile line from Gwinville to Aiken, S. C. Sheehan Pipe Line Construction Company, Tulsa, completed 180 miles of 18-inch between Gwinville and Selma; Associated Pipe Line Contractors is building 40 miles of 18-inch between Selma and Elmore, Ala.; 32 miles of 16-inch from Elmore to Mitchell Village, Ala., were completed by Sheehan; 121 miles of 16-inch from Mitchell Village to Bolingbroke, Ga., is under construction by Associated Pipe Line Contractors.

Southern Natural Gas Company completed 24 miles of 24-inch loops in Mississippi, Alabama and Georgia. Sheehan Pipe Line Construction Company, Tulsa, was contractor.

Southern Natural Gas Company completed 23 miles of 12-inch from Douglasville to Newnan, Ga. Latex Construction Company of Georgia, Atlanta, was contractor.

Southern Natural Gas Company has authority to substitute a ten-mile, eight-inch loop for a previously-authorized five-mile, six-inch loop.

Missouri

Associated Natural Gas Company completed 14 miles of 8-inch from Texas Eastern Transmission Corporation's system near Oran to Sikeston; and 21 miles of 6-inch from Sikeston to New Madrid.

The Central West Utility Company applied to FPC for permission to construct a 30-mile, 12-inch line from Cities Service Gas Company's facilities near Kansas City to Central's distribution system in Clay County, Kansas.

Laclede Gas Company completed 20 miles of 22-, 24-, 26-, and 30-inch additions to the main line distribution system in St. Louis. Frazier-Davis Construction Company, St. Louis, was the contractor.

Missouri Central Natural Gas Company applied for permission to lay a 60-mile, 6-inch line from Panhandle Eastern's system near Hannibal to Macon.

Montana

The Montana Power & Light Company built an 83-mile, 12-inch line from Butte to Bozeman. Deaton & Sons, Inc., Odessa, Texas, was contractor.

Nebraska

Kansas-Nebraska Natural Gas Company, Inc., applied to build 54 miles of 4-inch, 109 miles of 6-inch, 54 miles of 8-inch, and 5 miles of 10-inch to serve 37 Nebraska communities from its main line. Capacity of the system would be increased from 146 Mcmc to 164,200 mcf daily. North Central Gas Company asked permission to lay 35 miles of 6- and 8-inch line from Huntsman field to Northport, and a 13-mile line from Northport to Bayard. White Ditching Company, Inc., Casper, Wyo., has been given the contract.

North Carolina

Carolina Natural Gas Corporation applied for authority to build 372 miles in 18 laterals to distribute gas to Carolina markets from Transcontinental's line.

Piedmont Natural Gas Company, Inc., has authority to lay 74 miles in six laterals from Transcontinental's line to city distribution systems in North and South Carolina.

Public Service Company of North Carolina filed an amended application with FPC asking permission to build 284 miles of pipe line to serve Carolina communities not included in Piedmont's plans. Public Service also wants to take gas from Transcontinental.

New Jersey

Algonquin Gas Transmission Company asked FPC approval to lay a 255-mile system to supply parts of New England not to be served by Northeastern Gas Transmission Company. It would take gas from Texas Eastern Transmission Company. Jersey Central Power & Light Company has FPC authorization to build a 29-mile, 8-inch line from South Jersey Gas Company's line at Esteville to Cape May Court House.

Jersey Central Power & Light Company finished 40 miles of 10-inch from Bound Brook to Long Branch. N. J. Construction Service Company, Bound Brook, and Proctor, Inc., Long Branch, were the contractors.

South Jersey Gas Company completed 77 miles of 8-, 10-, 12-, and 16-inch from a Transcontinental lateral near Camden to Atlantic City with laterals to Glassboro, Bridgeton, Vineland, and Esteville. G. G. Griffis, Inc., Tulsa, was the contractor.

New Mexico

El Paso Natural Gas Company has been authorized to build 12 miles of 4-inch, 5 miles of 12-inch, and 31 miles of 10- and 16-inch in the vicinity of Phoenix, Ariz.

El Paso Natural Gas Company is building 451 miles of 24-inch transmission line from the San Juan Basin to its 26-inch line near Needles. Included in the project are 96 miles of feeder lines and 175 miles of branch lines. Completion is scheduled for the end of 1951. Company crews are doing the work.

El Paso Natural Gas Company completed 247 miles of 26- and 30-inch loops on its 26-inch line between Eunice and Blythe, Calif.; and 102 miles of 26-inch, and 17 miles of 30-inch main line from Gila station, Ariz., to Needles, Calif. Construction was done by company crews.

El Paso Natural Gas Company completed 116 miles of 12-inch from Snyder to Goldsmith, Texas, and 42 miles of 30-inch in the vicinity of Van Horn. Construction was done by company crews.

El Paso Natural Gas Company completed a 99-mile, 30-inch line from Deming to Tucson, Ariz. Line was built by company crews.

Southern Union Gas Company completed 13 miles of 4- to 14-inch distribution system in Albuquerque. Delmer M. Spafford, Farmington, was the contractor.

Southern Union Gas Company plans 78 miles of 8-, 10-, and 14-inch loops and laterals in New Mexico.

Utah Pipe Line Company asked authority to construct 374 miles of 22-inch and 18 miles of 16-inch between Aztec and Salt Lake City. Laterals would be built to serve communities along the route. The system would have a maximum capacity of 96 Mcmcf.

New York

Brooklyn Union Gas Company completed 12 miles of 10-inch line in Brooklyn.

Central Hudson Gas & Electric Corporation laid 40 miles of 10-inch from Home Gas Company's line at Tuxedo to Central Hudson's gas manufacturing plant at Poughkeepsie. Britton Contracting Company, Inc., Washington, Penn., was contractor.

Consolidated Edison Company completed 23 miles of 16- to 30-inch in New York City to take gas from Transcontinental.

Consumers' Gas Company asked permission to construct an 85-mile, 20-inch line from Buffalo to Toronto, Ontario.

Home Gas Company has FPC authority to construct 24 miles of 12-inch, 28 miles of 10-inch, and 18 miles of 8-inch in Orange, Sullivan, and Rockland Counties.

Iroquois Gas Corporation has authorization to build 23 miles of pipe line into Holland, Erie County, and Bennington, Wyoming County, storage fields. FPC authorized development of another new storage field, and enlargement of an old one.

New York State Natural Gas Corporation is building a 164-mile line from its 20-inch line at Dryden to Albany; and a 56-mile line from Dryden to the Tioga County, Penn., storage pool.

Niagara Mohawk Power Corporation has been authorized to build a 55-mile, 10-inch line to provide gas service to Watertown from a connection with New York State Natural's line at Fulton.

Niagara Mohawk Power Corporation is building 16 miles of 14-inch from its system near Syracuse to New York State Natural's proposed measurement station in Onondaga County; and 10 miles of 12- and 16-inch connecting with New York State Natural's system in Oneida and Herkimer Counties.

Niagara Mohawk Power Corporation completed 35 miles of 10- and 14-inch from Therm City to Fulton. Williams-Austin Company, Pittsburgh, was the contractor.

Ohio

East Ohio Gas Company applied to FPC for permission to build 65 miles of 26-inch from New York State Natural's line near Petersburg into Twinsburg Township, Summit County.

East Ohio Gas Company has FPC authorization to construct 12 miles in two 8-inch storage inlet and outlet lines in Columbiana, Mahoning, and Portage Counties.

East Ohio Gas Company completed 24 miles of 20-inch from TGT's system at Petersburg to East Ohio's Austintown station. Tulsa Williams Company, Tulsa, was the contractor.

Manufacturers Light & Heat Company has been authorized to construct 48 miles of 4- to 16-inch line at various points on its system in Ohio, Pennsylvania, and West Virginia, and to install two new 500-hp units at an existing station.

Ohio Fuel Gas Company has been authorized to build 60 miles of 3- to 12-inch line in connection with storage projects in Medina, Lorain, Richland, and Hocking Counties.

Ohio Fuel Gas Company completed 20 miles of 20-inch from Mt. Gilead to Galion, 15 miles of 20-inch between Lime City and Woodville, and 12 miles of 16-inch between Berlinville and South Amherst. Somerville Construction Company, Ada, Mich., built all three lines.

Ohio Fuel Gas Company completed a 22-mile, 16-inch line from Centerville to Dayton, and a 10-mile, 16-inch line from Mansfield to Pavonia. Ohio Pipe Line Construction Company, Greenville, was the contractor.

Pure Transportation Company completed 100 miles of 6-inch between Heath and Dayton. Wabash Contracting Company, Centralia, Ill., was the contractor.

Oklahoma

Cities Service Gas Company completed 23 miles of 10- and 12-inch in West Edmond field. Gragg Construction Company, Britton, was the contractor.

Lone Star Gas Company asked authorization to build 57 miles of pipe line from its present system to Idabel, Broken Bow, and Antlers. Company plans distribution systems in these communities.

Oklahoma Natural Gas Company plans to construct 65 miles of 26-inch between Edmond and Depew, and 38 miles of 16-inch from Ninnekah to the county line. Trojan Construction Company, Oklahoma City, will build the 26-inch line.

Oklahoma Natural Gas Company completed 22 miles of 10-inch between Stillwater and Guthrie.

Trojan Construction Company was contractor. Plains Natural Gas Company completed 198 miles of 4- to 24-inch gathering system in Hugo field. Midwestern Constructors did the engineering; Arey-Phillips Construction Company, Pampa, Texas, was contractor.

Pennsylvania

Acme Natural Gas Company completed 25 miles of 6-, 8-, and 10-inch to supply three Butler industrial consumers from Manufacturers Light & Heat Company's system. Williams-Austin Company, Pittsburgh, was contractor.

Consolidated Natural Gas Corporation plans to build a 164-mile line from Boom to Cortland, Ithaca, Schenectady, and Albany, N. Y., and 26 miles of 16-inch loop line in Pennsylvania.

Equitable Gas Company has been authorized to build a 3960-hp compressor station and 17 miles of 6-, 8-, 12-, and 16-inch line near Waynesburg.

Eric Gas Service Company, Inc., has application before FPC for construction of a 72-mile line from TGT's Kentucky-Buffalo line near Meadville to Wickliffe, Ohio. The line will supply gas to utility companies serving towns east of Cleveland.

Grand River Gas Transmission Company has applied for permission to build 70 miles of 10-inch

and 7 miles of 8-inch from TGT's line at Meadville to Fairport and Ashtabula, Ohio.

Harrisburg Gas Company completed 20 miles of 8-inch from Manufacturers Light & Heat Company's line at Maytown to Steelton. Northeastern Construction Company, Harrisburg, was the contractor.

Lake Shore Pipe Line Company asked FPC permission to build a 45-mile line from TGT's line at Meadville to Ashtabula. It would serve the same area as the lines proposed by Eric Gas Service Company and Grand River Gas Transmission Company.

New York State Natural Gas Corporation completed 21 miles of 20-inch between Murrysville and Bakerstown. Williams-Austin Company, Pittsburgh, was contractor.

Pennsylvania Gas Company completed eight miles of four-inch and 12 miles of eight-inch between its main line and a connection with TGT's system in Erie County.

Manufacturers Light & Heat Company laid 40 miles of six- to ten-inch line in the vicinity of York. Britton Contracting Company, Inc., Washington, was the contractor.

New York State Natural Gas Corporation has been authorized to build 54 miles of 16-inch loop from Greene County compressor station to Westmoreland County compressor station.

New York State Natural Gas Corporation has been authorized to build a 70-mile, 20-inch line from the Oakford storage area to the facilities of the East Ohio Gas Company at the Ohio-Pennsylvania state line. New York State Natural and Texas Eastern Transmission Corporation plan to develop a storage capacity in the Oakford area of 105,000 Mcmc per day, to be withdrawn at the rate of 400 Mcmc per day, to be divided equally between the two companies.

New York State Natural Gas Corporation is building 44 miles of 16- and 18-inch connecting its system in Pennsylvania with the Leidy gas field.

New York State Natural Gas Corporation completed 63 miles of 20-inch from Westmoreland County to a connection with East Ohio Gas Company at the Pennsylvania-Ohio state line. Tulsa-Williams Company, Tulsa, and Williams-Austin Company, Pittsburgh, were contractors.

New York State Natural Gas Corporation completed 46 miles of 16- and 18-inch in the vicinity of Renova. Pipeline Construction & Drilling Company, Camp Hill, was contractor.

New York State Natural Gas Company completed 26 miles of 16-inch from Colvin station, Washington County, to Murrysville, Westmoreland County. Williams-Austin Company, Pittsburgh, was the contractor.

Texas Eastern Transmission Corporation has been authorized to build 35 miles of 30-inch from its system in Fayette County into the Oakford storage area, and to operate jointly with New York State Natural an underground storage project in Westmoreland County (See New York State Natural Gas Corporation.)

United Natural Gas Company asked permission to construct 21 miles of 6-, 8-, and 12-inch line in Venango, Perry, and Mercer Counties. The project also includes the addition of 150 hp in three units at Henderson, Venango County, station.

United Natural Gas Company completed 60 miles of 12-inch in the vicinity of Brookville. Williams Bros. Corporation, Tulsa, was the contractor.

Tennessee

East Tennessee Natural Gas Company applied for permission to build 21 miles of 6-inch, 18 miles of 8-inch, and 100 miles of 16-inch from Knoxville to Bristol.

East Tennessee Natural Gas Company completed a 353-mile line from TGT's system at Lobelville to Oak Ridge. Oman Construction Company, Nashville, built 230 miles of 12-, 16-, and 22-inch from Lobelville to Tullahoma and from Athens to Oak Ridge. N. A. Saigh Company, San Antonio, built 123 miles of 12-inch between Tullahoma and Athens. A line serving Oak Ridge by TGT's line at Portland was built in 1949 by East Tennessee Natural.

Tennessee Natural Gas Lines, Inc., applied for permission to build nine miles of ten-inch connecting its lines to TGT's system.

Tennessee Natural Gas Company completed 24 miles of 8-, 10-, and 12-inch to supply Nashville Gas & Heating Company for distribution in the Nashville area. N. A. Saigh Company, Inc., San Antonio, Texas, was contractor.

East Texas

Arkansas-Louisiana Gas Company completed 72 miles of 20-inch from Waskom field to Magnolia, Ark., built by Anderson Bros. Corporation, Houston; and 91 miles of 20-inch from Magnolia to Malvern, Ark., completed by Latex Construction Company, Houston.

Humble Oil & Refining Company completed 50 miles of eight-inch and ten miles of four- and six-inch from Trawick field, Nacogdoches County, to Tennessee Eastern Corporation's new chemical plant southeast of Longview. Trojan Construction Company, Oklahoma City, was contractor.

Texas Gas Transmission Corporation plans a 290-

mile line from newly-acquired gas fields in South Louisiana to its main line near Monroe, La.

Texas Gas Transmission Corporation completed 103 miles of 20-inch transmission line from Carthage field to Lisbon field, La. N. A. Saigh Company, Inc., San Antonio, was contractor.

Texas Gas Transmission Corporation completed a 32-mile, 12-inch lateral between Slaughters, Ky., and Evansville, Ind. J. Ray McDermott & Company, Inc., Harvey, La., was contractor.

Texas Gas Transmission Corporation has been authorized to build a 3960-hp compressor station on its 20-inch line near Shreveport, a 4500-hp station in Kentucky, and 5460-hp in four stations in Tennessee and Kentucky.

North Texas

Lone Star Gas Company is building 49 miles of 8-, 10-, and 12-inch between Jacksboro field, Wise County, and the north Fort Worth measuring station. Company crews are doing the work.

Southwest Texas

Delhi Oil Company will build 70 miles of eight-inch from Lopeno field, Zapata County, to Laredo. Altgelt Construction Company, Corpus Christi, has the contract.

Provident Gas Company built ten miles of four- and six-inch gathering system in Longhorn field, Duval County, to tie into Transcontinental Gas Pipe Line Corporation's line. Altgelt Construction Company was contractor.

Sun Oil Company completed 30 miles of three-through eight-inch gathering system in Starr County. Shanks & Eustace, Alice, was contractor. **Tennessee Gas Transmission Company** has been authorized to build 303 miles of 26-inch transmission line from Buffalo to the New York-Massachusetts state line; 787 miles of 24-, 26- and 30-inch loops along its Texas-Buffalo line; 75 miles of supply laterals. Company will build seven new stations with a total of 42,080 hp and will install 69,600 hp in existing or authorized stations. These facilities will raise the system capacity to 1310 Mcmcf.

Tennessee Gas Transmission Company applied for permission to increase its system capacity to 1425 in order to export 115 Mcmcf to Canada. The project would include the building of a 45-mile line from Buffalo to the U.S.-Canadian border near Niagara Falls; 170 miles of loop line along the TGT system between Texas and Kentucky; 96 miles of loop along its Kentucky-Buffalo extension; 100 miles of miscellaneous lateral lines; two new compressor stations of 8000 hp each; and 56,000 hp in existing stations. **Tennessee Gas Transmission Company** completed 395 miles of 26-inch transmission line from northeastern Kentucky to Buffalo. H. C. Price Company, Bartlesville, Okla., was the contractor. This extension, including construction of a compressor station near Load, Ky., increased the system capacity to 1060 Mcmcf.

Tennessee Gas Transmission Company completed a 95-mile, 20-inch lateral from its main line at Natchitoches to Kinder, La. Latex Construction Company, Houston, was contractor.

Tennessee Gas Transmission Company completed a 40-mile, 16-inch lateral from Beaver Falls to Pittsburgh, Penn. Britton Construction Company, Weatherford, was the contractor.

Tennessee Gas Transmission Company completed a 32-mile, 26-inch loop between Premont and Agua Dulce. Sheppard & Geiger Construction Company, Corpus Christi, was contractor.

Tennessee Gas Transmission Company completed the following 30-inch loops along its main line: 72 miles between Agua Dulce to Woodsboro, built by Oklahoma Contracting Corporation, Dallas; 68 miles between Many and West Monroe, La.; 33 miles between Jones, La., and the Mississippi River, and 32 miles across the southeast corner of Arkansas, built by Latex Construction Company, Houston; 93 miles between Drew and Holly Springs, Miss., by Oklahoma Contracting Corporation; 228 miles at intervals between Selmer, Tenn., and Lebanon, Ky., built by Price-Morrison, Austin.

Tennessee Gas Transmission Company completed the following supply and distribution laterals along its line: 26 miles of 12-inch from Starr County to Hidalgo County, and 42 miles of 12-inch from Alice to Freer, built by Sheppard & Geiger Construction Company, Corpus Christi; 13 miles of 6-inch in the vicinity of Alice, built by Shanks & Eustace, Inc., Alice; 15 miles of 6-inch near Tomball, built by Latex Construction Company, Houston; 54 miles of 12- and 16-inch from Kinder to Grand Chenier, La., 102 miles of 16-inch and 11 miles of 12-inch from Kinder to Bayou Sale, La., 15 miles of 12-inch from Delcambre to Tigre Lagoon, La., built by Latex Construction Company; 57 miles of 8-inch between Greensburg and Brandenburg, Ky., built by Brown & Root, Inc., Houston.

Texas Illinois Natural Gas Pipe Line Company is at work on its 1331-mile line from La Gloria field to Joliet, Ill. One hundred miles of 26-inch from La Gloria to Refugio is being built by Midwestern Constructors, Inc., Tulsa; 97 miles of 26-inch from Refugio to Hungerford and 38 miles of 12-inch from Old Ocean field to Chocolate Bayou field were sublet from H. C. Price Company, Bartlesville, Okla., and com-

pleted by Western Pipe Line Constructors, Inc., Austin; 36 miles of 24-inch between Wharton and Old Ocean field, and 110 miles of 30-inch from Hungerford to Cleveland have been completed by H. C. Price Company; 199 miles from Cleveland to Texarkana have been let to H. C. Price Company; 100 miles of 30-inch from the Mississippi River to Effingham, Ill., is under way by Midwestern Constructors, Inc.; 209 miles of 30-inch from Effingham to Joliet are scheduled for 1951 construction by Midwestern Constructors, Inc. Three compressor stations will be built by Fish Pipeline Construction Company, Houston. Initial capacity will be 374 Mcmcf.

Texas Illinois Natural Gas Pipeline Company has FPC authorization to build 43 miles of 20-inch from the area north of La Gloria field northwest to Clayton, and 26 miles of 20-inch from Clayton south to Hagist Ranch field.

Transcontinental Gas Pipe Line Corporation completed its 1840-mile line from the Texas Rio Grande Valley to New York and Brooklyn. Fish Constructors, Inc., Houston, held the master contract. Sub-contracts were let as follows (pipe is 30-inch unless otherwise mentioned): Schedule A—38 miles of ten-inch and 42 miles of 14-inch from Mercedes to Falfurrias to Massey Pipe Line Construction Company, Corpus Christi; Schedule B—109 miles of 24-inch from Falfurrias to Inari to H. B. Zachry Company, San Antonio; 44 miles of 26-inch from Inari to Edna to Oklahoma Contracting Corporation, Dallas; Schedule C—74 miles of 26-inch from Edna to the Harris-Fort Bend County line to Oklahoma Contracting Corporation; 40 miles from the County line to Porters to Williams Bros.-Davis Company, Houston; Schedule D—92 miles from Porters to the Sabine River at Deweyville to Texas Southern Contracting Company, Fort Worth; Schedule E—82 miles from Deweyville to Eunice, La., to Anderson Brothers Corporation, Houston; Section 1—66 miles from Eunice to the Mississippi River to Morrison Construction Company, Inc., Austin; Section 2—112 miles from the Mississippi to Bassfield, Miss., to Morrison Construction Company; Section 3—112 miles from Bassfield to the Tombigbee River at Demopolis, Ala., to Wunderlich & Griffis Construction Company, Tulsa; Sections 4 and 5—206 miles from Demopolis to Newnan, Ga., to Midwestern Constructors, Inc.; Section 6—108 miles from Newnan to Danielsville, Ga., to Williams Bros. Corporation, Tulsa; Section 7—86 miles from Danielsville to Spartanburg, S. C., to Williams Bros.; Section 8—102 miles from Spartanburg to the Catawba River, N. C., to R. H. Fulton & Company, Lubbock; Section 9—100 miles from the Catawba River to Spray, N. C., to R. H. Fulton & Company; Section 10—86 miles from Spray to the James River, Va., to Smith Contracting Corporation, Fort Worth; Section 11—110 miles from the James River to the Potomac River near Falls Church, Va., to Smith Contracting Corporation; Section 12—76 miles from Falls Church to the Susquehanna River near Conowingo, Penn., to Associated Pipe Line Contractors, Inc., Houston; Section 13—90 miles from Conowingo to the Delaware River, Penn., to Wunderlich & Griffis Construction Company; Section 14—61 miles from the Delaware River to Linden, N. J., to Wunderlich & Griffis; Section 15—23 miles from Linden to the Hudson River at Edgewater, N. J., to Oklahoma Contracting Company, Inc. Sections 1, 2, 3, 4, and 6, comprising 501 miles, were completed in 1949.

Transcontinental Gas Pipe Line Corporation completed the following gathering laterals in Texas: 58 miles of 4- to 14-inch in the El Campo area, built by T. & R. Construction Company, Houston; 98 miles of 6- to 14-inch in the Wharton area, built by Altgelt Construction Company, Corpus Christi; 38 miles of four- to eight-inch in the Sinton area, built by Shanks & Eustace, Inc., Alice; 61 miles of six- to ten-inch in the Dix area, built by Victoria Oil Field Maintenance Company, Victoria.

Transcontinental Gas Pipe Line Corporation completed 85 miles of 4- to 14-inch gathering system in southern Louisiana. Latex Construction Company, Houston, was the contractor.

Transcontinental Gas Pipe Line Corporation completed 50 miles of 18- and 20-inch from Eunice to a point 15 miles south of Crowley, La. Texas-Southern Contracting Company, Fort Worth, was the contractor.

Transcontinental Gas Pipe Line Corporation completed a 20-mile, 20-inch sales lateral from its main line to Marcus Hook, Penn. Conduit and Foundation Corporation and John Meehan & Son, Philadelphia, were the contractors.

Transcontinental Gas Pipe Line Corporation completed 40 miles of 6- and 8-inch sales laterals in Pennsylvania. Northeastern Construction Company, Harrisburg, Penn., was the contractor.

Transcontinental Gas Pipe Line Corporation was authorized to build 36 miles of 24-inch from Berger County, N. J., to Greenwich, Conn., an 8-inch lateral to Paterson, N. J., and a 6000-hp compressor station in Westchester County, N. Y. However, Transcontinental has proposed substitutions in a subsequent application.

Transcontinental Gas Pipe Line Corporation is building 8 miles of 10-inch and 9 miles of 30-inch from its main line to Paterson, N. J. Okla-

homa Contracting Corporation, Dallas, is the contractor.

Transcontinental Gas Pipe Line Corporation has application before FPC for permission to build 11 miles of 20- to 26-inch from its main line near East Carteret, N. J., to the Bay Ridge section of Brooklyn. Line would constitute an auxiliary connection for the delivery of gas to metropolitan New York.

Transcontinental Gas Pipe Line Corporation has authority to increase the capacity of its system to 555 Mcmcf by adding 45,675 hp in compressor capacity at existing stations.

United Gas Pipe Line Company completed 34 miles of gathering lines in fields in DeWitt and Goliad Counties, and 12 miles of 16-inch to connect them to the company's 16-inch Refugio-San Antonio line. Brown & Root, Inc., Houston, was the contractor.

Valley Gas Pipe Line Company, Inc., applied to FPC for permission to build a 1440-mile line from Texas and Louisiana to southern Michigan. A 24-inch line would run from Goliad County to the Saratoga field in Hardin County, where it would be joined by a 24-inch line from the Vermilion Bay, La., area, offshore to Sabine Pass. From Saratoga a 1000-mile, 30-inch line would cross Louisiana, Arkansas, Missouri, Illinois, and Indiana, terminating in southern Michigan. Plans call for 13,250-hp stations at Saratoga and Poplar Bluff, Mo., and for 70,000 hp in additional stations to be installed as needed. Initial capacity would be 330 Mcmcf; ultimate capacity 505 Mcmcf. If approved, the line will increase by 20 percent the amount of gas going north and east from the Gulf Coast.

Western Natural Gas Company is building a 55-mile, 2- through 6-inch gathering system in Live Oak County. Stuart Pipe Line Construction Company, Beeville, Texas, is the contractor.

Texas Panhandle

Cities Service Gas Company is building 9 miles of 26-inch in the vicinity of Pampa. R. H. Fulton & Company, Lubbock, is the contractor.

Colorado Interstate Gas Company has FPC authorization to lay a 215-mile, 20-inch line from the West Panhandle field to its Lakin-Denver line at Kit Carson, Colo. A 4800-hp compressor station will be built at the southern end.

Michigan-Wisconsin Pipe Line Company has been authorized to install 139,200 hp of additional compressor capacity on its main line to increase the sales capacity to 110,595 Mcmcf.

Panhandle Eastern Pipe Line Company is authorized to build 172 miles of loop line in Illinois, Indiana, and Michigan, and to install 16,000 hp in existing stations. These facilities, which will increase system capacity to 800 Mcmcf, are largely to handle gas from Trunkline's authorized Louisiana-Illinois line. FPC has also approved for construction in connection with this program 188 miles of previously-authorized line and additional compressor units in existing stations.

Panhandle Eastern Pipe Line Company completed 30 miles of 30-inch loop between Rockville, Ind., and Glenarm, Ill., and a 16-mile, 26-inch loop in the vicinity of Decatur, Ill. Anderson Bros. Corporation, Houston, contractor, will build another 26-mile loop in 1951.

Panhandle Eastern Pipe Line Company completed 69 miles of 26-inch in four loops between Hugo-ton and Olpe, Kansas. Midwestern Constructors, Inc., Tulsa, was the contractor.

Panhandle Eastern Pipe Line Company completed 85 miles of 4- through 12-inch from Dumas to Hugo-ton, Knapp Construction Company, Inc., Great Bend, Kansas, was contractor.

Phillips Petroleum Company is building 14 miles of 24-inch in Sherman County and in Oklahoma. Arey-Phillips Construction Company, Hooker, Okla., is the contractor.

Phillips Petroleum Company completed 118 miles of 3- to 22-inch gathering system in Sherman and Hansford Counties. Vaughn & Taylor Construction Company, Inc., Wichita Falls, was the contractor.

Upper Texas Coast

Houston Pipe Line Company completed 14 miles of 12-inch between Crosby and Baytown. L. E. Farley, Inc., Houston, was contractor.

Pacific Northwest Pipeline Corporation asked authority to build a 2175-mile, 26-inch line from Wharton County to Washington state. Also included in the plans are 400 miles of 22-inch and smaller laterals, and 13 compressor stations of 6400 hp each. Estimated to cost \$174 million, the line would have an initial capacity of 250 Mcmcf. The company plans to purchase 100 Mcmcf daily from Alberta gas fields, and to supply Vancouver, B. C.

Shell Pipe Line Corporation will build 20 miles of 8-inch from the Hope and Brushy Creek fields to Provident City.

Texas Eastern Transmission Corporation asked FPC in an amended application for a permit to construct a 791-mile, 30-inch line from Kosciusko, Miss., to a connection with its system near Connellsville, Penn. The project includes installation of 46,400 hp in seven stations on the new line, and 52,500 hp in six new stations on the existing line. Texas Eastern would supply Algonquin Gas Transmission Company with 260 Mcmcf per day at a connection near Lambertville, N.

J., for resale in New England. The new facilities, estimated to cost \$117 million, would bring Texas Eastern's total capacity to 1216 Mcf. Texas Eastern Transmission Corporation has been given authority to build 10 miles of 10-inch from its main line to Arkansas-Missouri Power Company's plant in Dunklin County, Mo.

Texas Eastern Transmission Corporation completed 100 miles of 16-inch transmission line between Providence City and its Baytown terminal. Smith Contracting Corporation, Fort Worth, was the contractor.

Texas Eastern Transmission Corporation completed 34 miles of 20-inch loop between Beaumont and Hankamer, built by Associated Pipe Line Contractors, Inc., Houston; and 178 miles of 26-inch loop between Lebanon and Beallsville, Ohio, built by Associated Pipe Line Contractors, Inc., and Williams Bros. Corporation, Tulsa.

United Gas Pipe Line Company finished 9 miles of 8-inch in the vicinity of Rosenberg with Massey Pipeline Construction Company, Corpus Christi, as contractor.

United Gas Pipe Line Company completed 50 miles of 30-inch from Magnet-Withers field to Missouri City, and 28 miles of 24-inch from Missouri City to Shell Oil Company's Houston refinery. Texas-Louisiana Contractors, Fort Worth, built the 30-inch. Brown & Root, Inc., Houston, completed the 24-inch.

West Texas

Barnsdall Oil Company completed 100 miles of 2-through 8-inch gathering system near Snyder. C. O. Holder Construction Company, Columbus, was contractor.

Lion Oil Company completed a 70-mile, 2- to 12-inch gathering system in Diamond "M" and Sharon Ridge fields, Scurry County. George Tucker Pipe Line Construction Company, Odessa, was the contractor.

Lone Star Gas Company is building 31 miles of 12-inch from Scurry County fields to Sweetwater, in Nolan County. W. L. Golightly Construction Company is contractor.

Sunray Oil Corporation is building 133 miles of 2-through 30-inch in the vicinity of Snyder. Vaughn & Taylor Construction Company, Inc., Wichita Falls, is the contractor.

Utah

Utah Natural Gas Company has amended its application to the Utah Public Service Commission for permission to build 325 miles of 22-inch from the Four Corners area to Salt Lake City. It now

wants to include 171 miles from the Last Chance area in Emery County to run through Sevier and Sanpete Counties to Salina and south to Richfield.

Virginia

City of Charlottesville completed 14 miles of 6-inch from Virginia Gas Transmission Corporation metering and regulating station near Doylesville, Va., to the city's distribution system. Lehman, Hoge & Scott, Harlingen, Texas, was contractor.

City of Danville completed 14 miles of 6- and 8-inch from Transcontinental's line to the city storage tanks. M. L. Bles Construction Company, Danville, was contractor.

Commonwealth Natural Gas Corporation completed 200 miles of 12- and 18-inch from Virginia Gas Transmission Corporation's line in Greene County to the Norfolk area. Ray L. Smith & Son, Inc., was contractor.

Lynchburg Gas Company asked authority to lay a 15-mile line from Transcontinental's line in Appomattox County to a point in Campbell County adjacent to Lynchburg.

Natural Gas Service Corporation has application pending to build 92 miles of 12-inch to carry gas to Richmond, Hopewell, and Petersburg from a connection with Transcontinental's line at Buckingham.

Roanoke Pipe Line Company completed 30 miles of 8-inch from Virginia Gas Transmission Corporation's line at Gala to Roanoke. Lehman, Hoge & Scott, Corpus Christi, was contractor.

Shenandoah Gas Company applied for FPC permission to build 38 miles of 8-inch and 11 miles of 3- and 4-inch to take gas from Virginia Gas Transmission Corporation's line near Cedarville to several communities in Virginia and West Virginia.

Southwestern Virginia Gas Transmission Company seeks FPC authority to construct a 17-mile line from Transcontinental's system near the North Carolina-Virginia state line to Martinsville.

Washington

Northwest Natural Gas Company has an application pending for authority to build 606 miles of 24-inch and 150 miles of 18-inch in Washington, Oregon, and Idaho. Alberta gas would be carried to Seattle and Portland, then north to Vancouver, B. C.

Westcoast Transmission Company, Inc., has ap-

plied for authority to build a 277-mile line from Sumas, to Seattle and Tacoma, Wash., and Portland, Ore., and a 266-mile branch line from Osoyoos, B. C., to Spokane and the AEC plant at Hanford. These lines would be the American sections of a system proposed by Westcoast Transmission Company, Ltd., a Canadian company, to serve British Columbia and Washington cities from Alberta gas fields.

West Virginia

Bluefield Gas Company has been authorized by FPC to build a 14-mile, 6-inch connection between Amere Gas Utilities Company's line at Princeton, and Bluefield, Va.

Cumberland and Allegheny Gas Company has applied for authority to build 10 miles of 6- and 8-inch line from Grant County into Garrett County, Md. It has been authorized to build a 65-hp station in West Virginia.

Hopetown Natural Gas Company completed 20 miles of 18- and 20-inch from its Tonkin compressor station in Doddridge County to the Fink storage area. Pipe Line Construction & Drilling Company, Camp Hill, Penn., was the contractor.

New River Gas Company asked permission to build 50 miles of line from a connection with Atlantic Seaboard Corporation's system in Summers or Monroe County to Radford, Va., with laterals to serve four towns along the way.

United Fuel Gas Company completed 12 miles of 10- and 20-inch from TGT's transmission line to storage fields near Nitro and Clendenin. Williams-Austin Company, Pittsburgh, was contractor.

Wisconsin

Michigan-Wisconsin Pipe Line Company has been authorized to raise its capacity to 110,595 Mcf by the addition of 109,600 hp at 14 points along its main line.

Michigan-Wisconsin Pipe Line Company completed 197 miles of 8- to 14-inch main line between Milwaukee and Green Bay with laterals to Fond du Lac and Sheboygan. G. G. Griffis Construction Company, Tulsa, was the contractor.

Wyoming

Montana-Dakota Utilities Company and Montana-Wyoming Gas Pipe Line Company finished their 340-mile, 12-inch line from Worland field to Montana-Dakota's Cabin Creek, Mont., station. Conyes Construction Corporation, San Pablo, Calif., was contractor.

Coating and wrapping 20" line in the winter months in North Louisiana.

