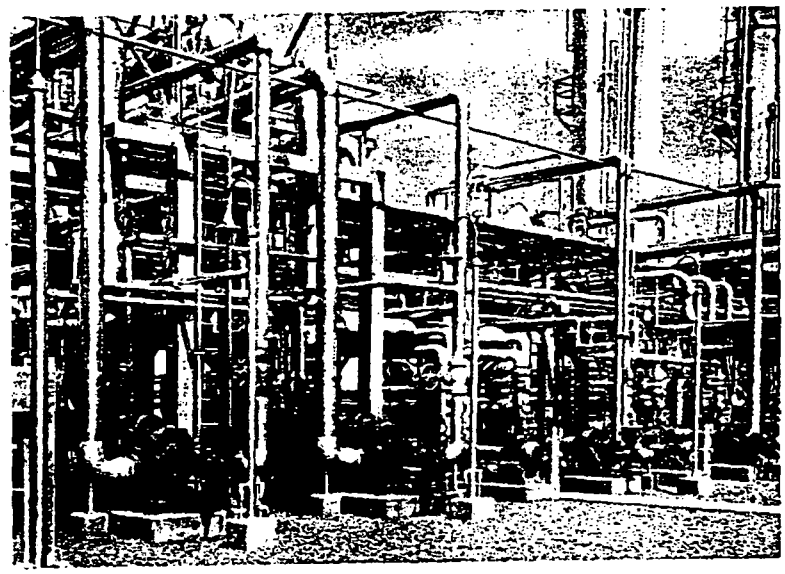

This line of Elliott steam turbines is driving processing pumps in the gas plant which is adjacent to the catalytic-cracking unit.

The Elliott turbine-driven centrifugal compressor serving the catalytic-cracking unit is rated 18,200 inlet cfm, inlet pressure 14.05 psia, discharge 42.5 psia. It is driven at 6100 rpm by a 2272-hp condensing turbine operating on 150-psig steam.

Midland Co-op expansion

THE Midland Co-operative Wholesale refinery at Cushing, Oklahoma, was recently revamped, enlarged, and modernized. Crude oil capacity was increased 70 percent to 10,500 barrels daily along with a 700 percent increase in catalytic polymerization capacity. The refinery was also equipped with a 5000-barrel-per-day U.O.P. fluid catalytic-cracking unit, feed for the new cracker being supplied by a converted thermal unit previously rated at 1800 barrels per day. The cat cracker and poly unit were erected along with some of the auxiliaries by The Refinery Engineering Company of Tulsa.

An Elliott turbine-driven centrifugal compressor serves the cat cracker, and Elliott mechanical drive turbines, 8 to 125 hp, direct-connected and geared, drive pumps around the refinery.

