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SUMMARY

This report briefly summarizes the work which has been performed on the Kellogg Molten Salt Gasification Process during the approximately three-and-one-half years of the contract with the Office of Coal Research. It also up-dates the Status Report, submitted to the Office of Coal Research on June 19, 1967, in the areas where additional work was performed subsequent to its submission.

The first section presents a summation of the chemical engineering studies which were performed leading up to the definition of the process concept and conceptual designs of the various schemes under consideration. A brief review of the process optimization studies as well as a summary of the economics for all the cases considered is presented along with a discussion of the critical assumptions and the experimental justification for them.

The second section contains the results of the experimental work done in the areas of chemical research and mechanical development for those portions of the process deemed most critical.

The third section very briefly states the general objectives of the pilot plant program which has been proposed for future development of the Molten Salt Process. A detailed proposal, dated June 1, 1967, has already been submitted to the Office of Coal Research.