GAS GENERATOR RESEARCH AND DEVELOPMENT

Progress Report No. 6
February 1972
(BCR Report L-457)

Submitted to the

Office of Coal Research
Department of the Interior
Washington, D. C.

March 20, 1972

Bituminous Coal Research, Inc.
350 Hochberg Road
Monroeville, Pennsylvania

BITUMINOUS COAL RESEARCH, INC.
PITTSBURGH, PENNSYLVANIA

JAMES R. GARVEY
PRESIDENT
JOHN W. IGOE
EXECUTIVE VICE PRESIDENT
D. PAUL MCCLOSKEY
SECRETARY AND TREASURER

PLEASE ADDRESS REPLY TO:
350 HOCHBERG ROAD
MONROEVILLE, PA.
15146
PHONE: 412 327-1600

March 1, 1972

Mr. Paul Towson, Engineer
Division of Utilization
Office of Coal Research
U.S. Department of the Interior
Washington, D. C. 20240

SUBJECT: Monthly Progress Report No. 6
OCR Contract No. 14-32-0001-1207

Dear Mr. Towson,

The Phase II studies on process and equipment development continue according to schedule. The Stage 2 PEDU (100 lb/hr) has been dismantled except for removal of large-scale equipment. An early decision on disposal of these large items will be required to allow preparation of the area for the new PEDUs. A final summary report of the Stage 2 PEDU work is in the final editing process. The summary report on the coal composition and beneficiation studies will be mailed to you on March 6, 1972.

A larger blower for the cold flow model studies of Stages 1 and 2 of the two-stage gasifier is being sought. The blower is needed to study simulated slag drainage from Stage 1.

Catalyst evaluation continues in the bench-scale methanator studies. Promising catalysts have been found and will be tested in the cold model PEDU. In bench-scale work on char gasification, a small fluidized-bed unit is being constructed to determine the validity of the TGA-derived rate equations in a dynamic system.

Authorization to commit funds for the methanation PEDU erection has been received. Detail engineering and solicitation of bids on equipment continues. Modifications to the fluidized-bed gasifier have been held up pending a decision by OCR to proceed.

Engineering assistance from Koppers continues.

Yours very truly,

John W. Igoe

JWI:keg
8006

TABLE OF CONTENTS

TABLE OF CONTENTS (continued)

LIST OF FIGURES

LIST OF TABLES