

STRICTLY CONFIDENTIAL

HYDROCARBON SYNTHESIS

PARTIAL REPORT NO. 37

Montebello Laboratory Experiment No. TDC-802  
Work Completed August 17, 1949 Report Approved January 10, 1951

SYNTHESIS OPERATIONS ON ALAN WOOD  
CATALYST UNDER BROWNSVILLE CONDITIONS

MONTEBELLO RUN 49

I. INTRODUCTION

At the end of Run 48<sup>1</sup> it was apparent that Brownsville design yields could not be obtained at Montebello under the Brownsville design conditions. It was indicated, however, that higher yields might be obtained if the catalyst level could be raised above the top of the steam cooling tubes and extended into the upper spherical head of the Brownsville reactor. In order to test this possibility the Montebello reactor was rebuilt employing a vertical velocity gradient duplicating the Brownsville design.

This report is based on Run 49 which was made with this revised reactor (No. 4) over the period July 15 to August 17, 1949.