

ChevronTexaco provides no warranties, either express or implied, as to the accuracy or validity of any of the work in this report. Anyone accessing or using the reports indemnifies and holds ChevronTexaco harmless against any liability that comes from using or relying on the information contained therein.

THE TEXAS COMPANY

REFINING DEPARTMENT
TECHNICAL & RESEARCH DIVISION



REPORT ON

YIELDS OF OXYGENATED COMPOUNDS
MONTEBELLO SYNTHESIS RUN NO. 15

Laboratory MONTEBELLO

Report No. TDC-802-4-P

Date July 15, 1947

THE TEXAS COMPANY
MONTEBELLO LABORATORY
REPORT IV

YIELDS OF OXYGENATED COMPOUNDS
MONTEBELLO SYNTHESIS RUN NO. 15

July 28, 1947

STRICTLY CONFIDENTIAL

O. A

HYDROCARBON SYNTHESIS

PARTIAL REPORT NO. 4

Montebello Laboratory
Report Approved July 28, 1947

Experiment TDC. 802
Work Completed July 28, 1947

YIELDS OF OXYGENATED COMPOUNDS
MONTEBELLO SYNTHESIS RUN NO. 15

INDEX

	<u>Page</u>
I. INTRODUCTION	1
II. ORIGINAL DATA	1
III. YIELD CALCULATIONS	1
IV. RESULTS AND DISCUSSION	6
A. Concentrations vs. Time	6
B. Concentrations vs. Conversion	8
C. Yields vs. Conversion	10
D. Conversion of CO to oxygenated compounds	12
E. Distribution between water and oil phases	14
F. Olefin: Alcohol ratios	16
G. Alcohol: Acid Ratio vs. CO Concentration	18
V. CONCLUSIONS	19
VI. RECOMMENDATIONS	19
VII. APPENDIX	22