

III. CONCLUSIONS

1. When the Montebello Reactor No. 3 was operated with a 10 to 12-foot bed of magnetite catalyst under flow conditions comparable to Brownsville design, the yield of C₃ and heavier hydrocarbons was only about 75 per cent of that expected at Brownsville which will operate at a bed height of approximately 20 feet.

2. The C₃₊ yield increased with bed height.

3. It was not possible to operate the Montebello Reactor satisfactorily with extremely finely-ground magnetite catalyst (98.8 per cent through 325-mesh).