

### E. YIELDS OF ULTIMATE OIL

Yield data for ultimate oil obtained in Runs 17, 22, and 27 have been tabulated below. Both instantaneous and cumulative yields, expressed as gallons of ultimate oil per thousand cubic feet of hydrogen plus carbon monoxide, have been plotted against cumulative gallons of ultimate oil per pound of catalyst charged.

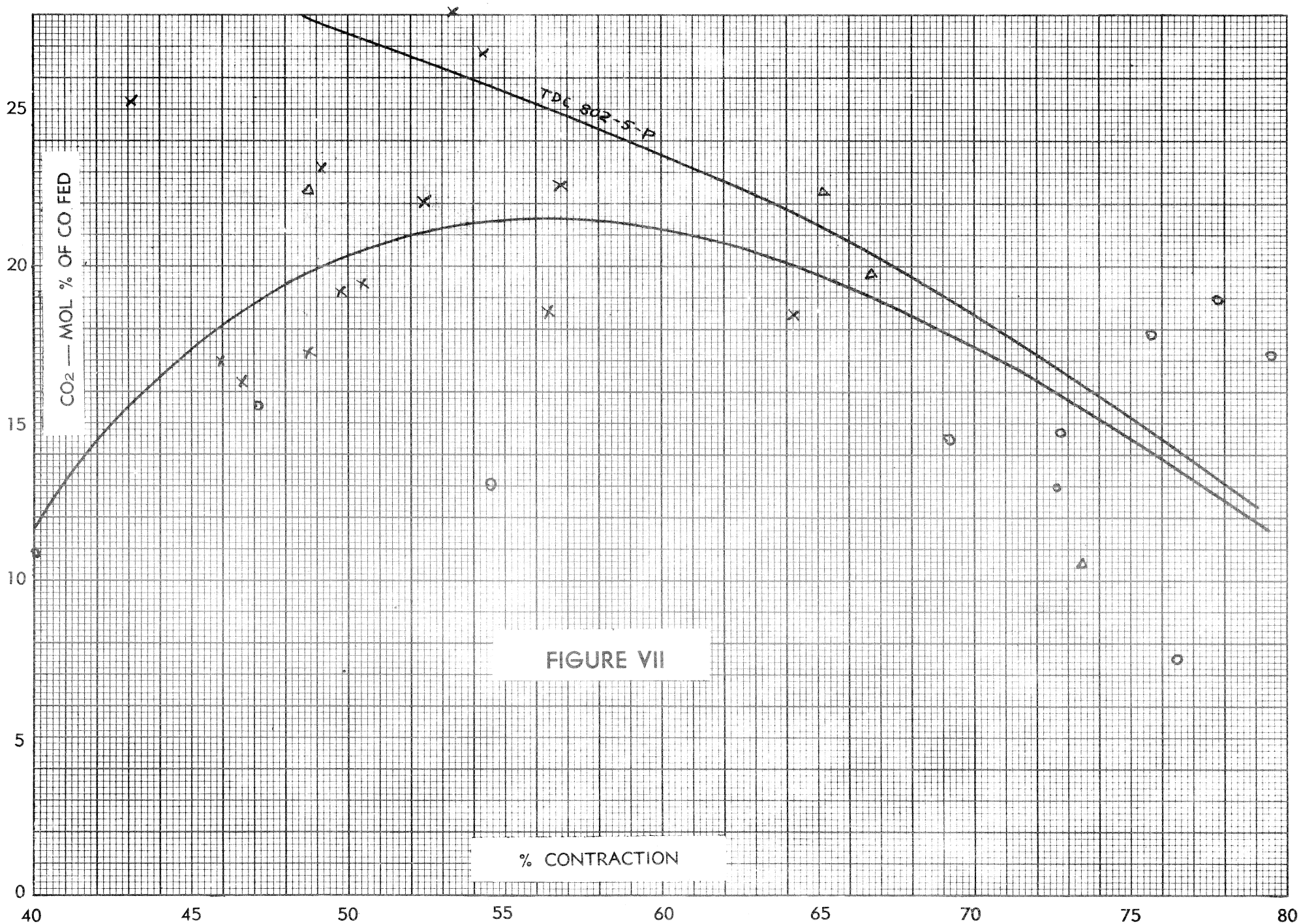


FIGURE VII

FIGURE VIII

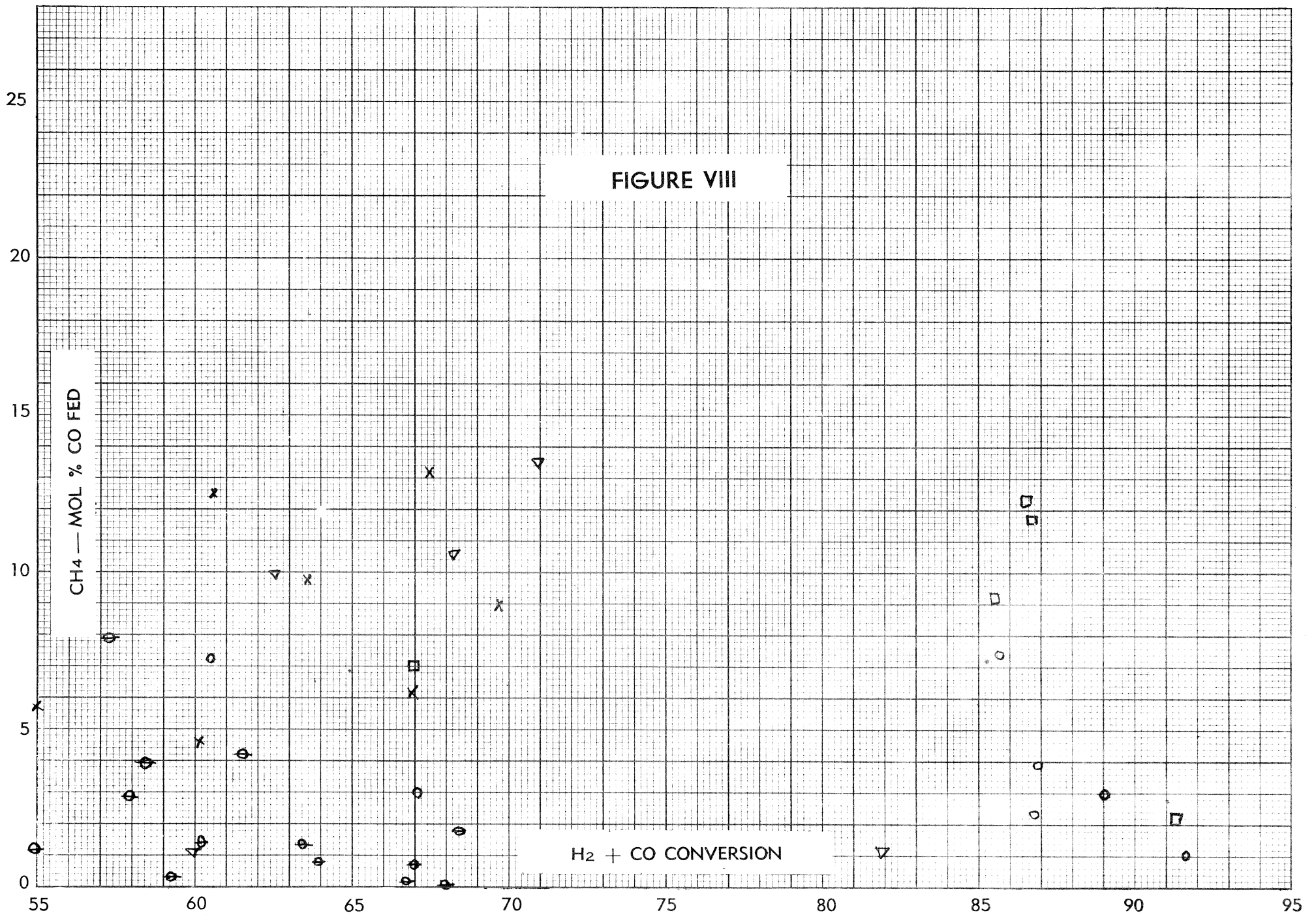


FIGURE IX

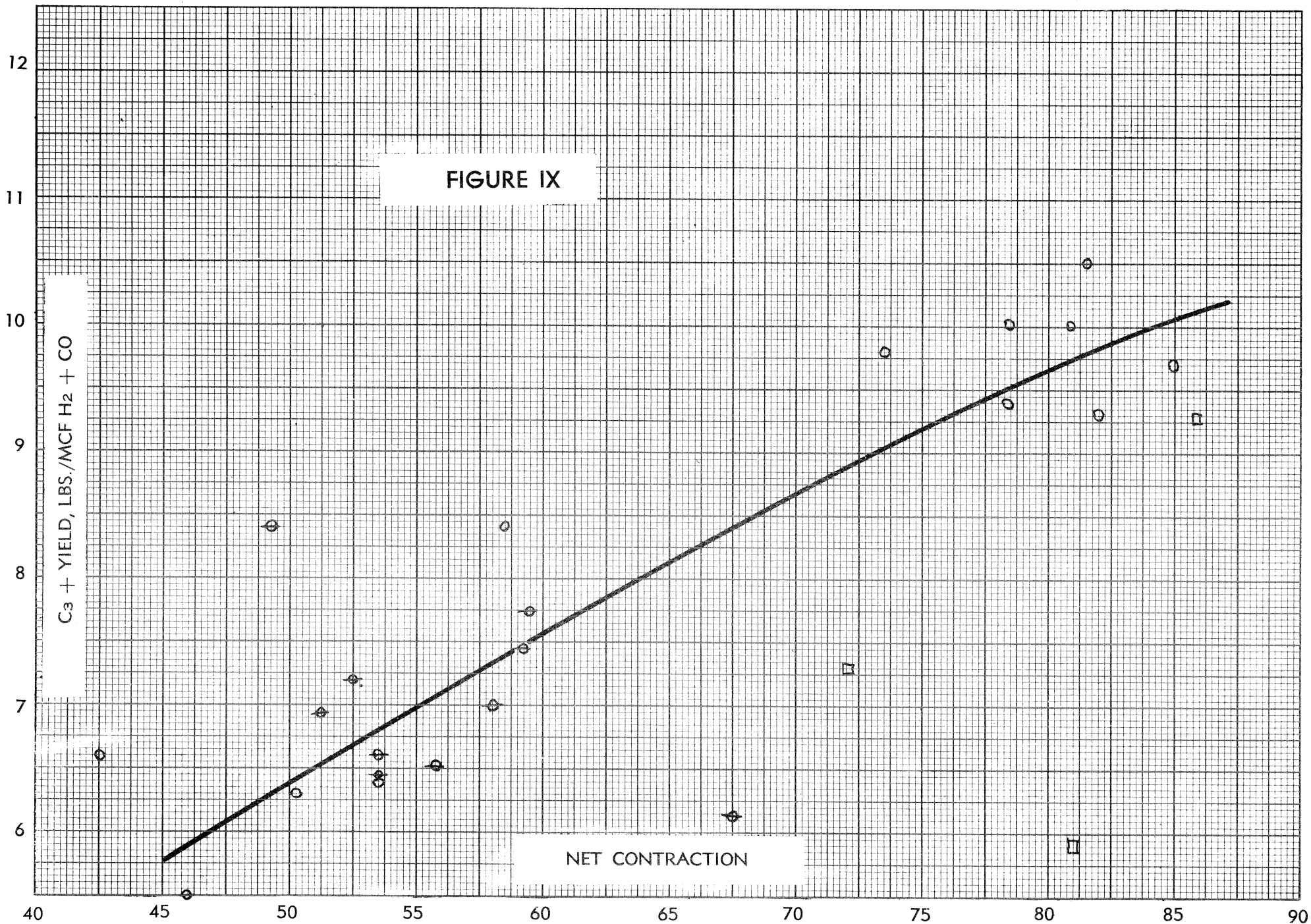




FIGURE X

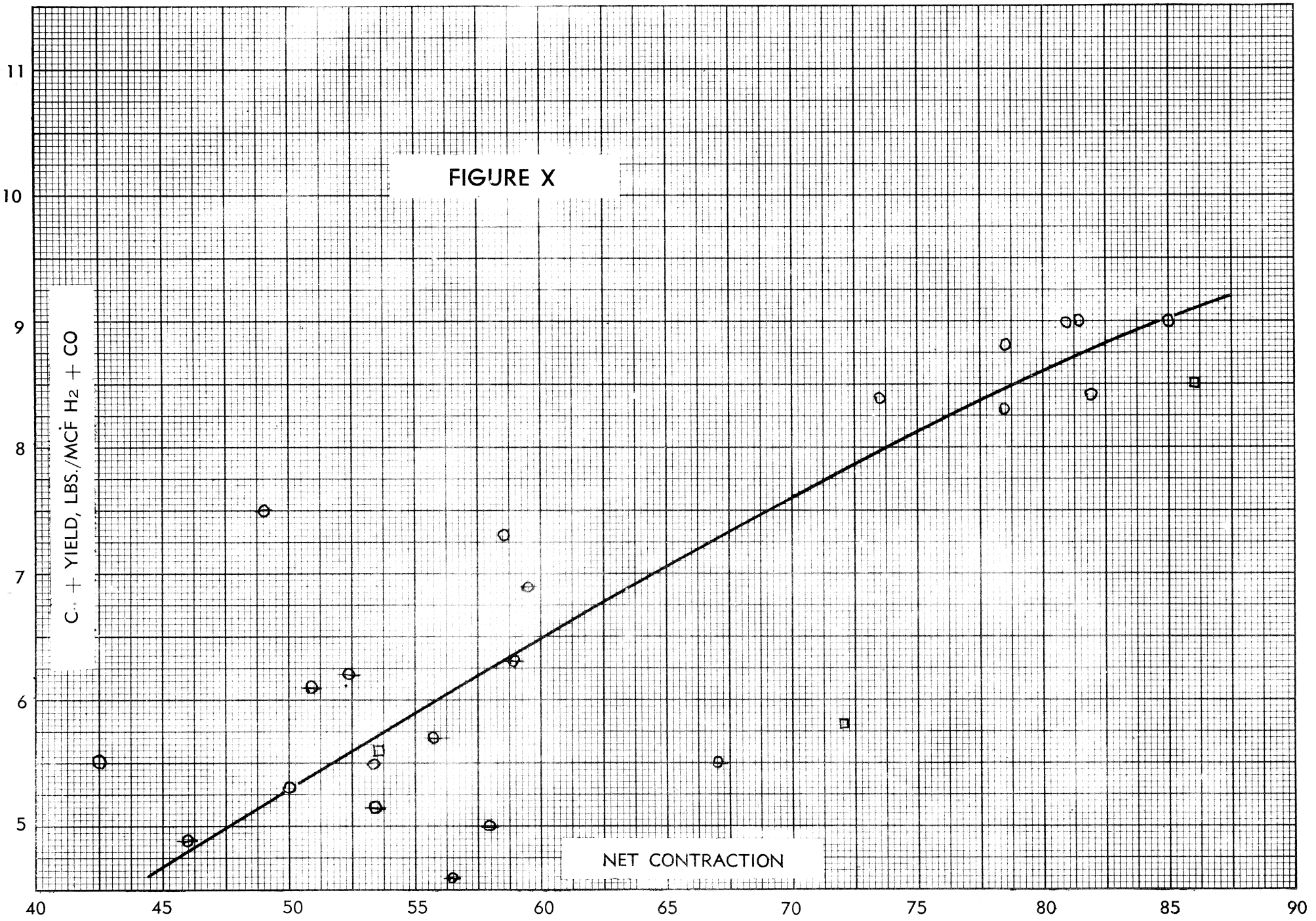
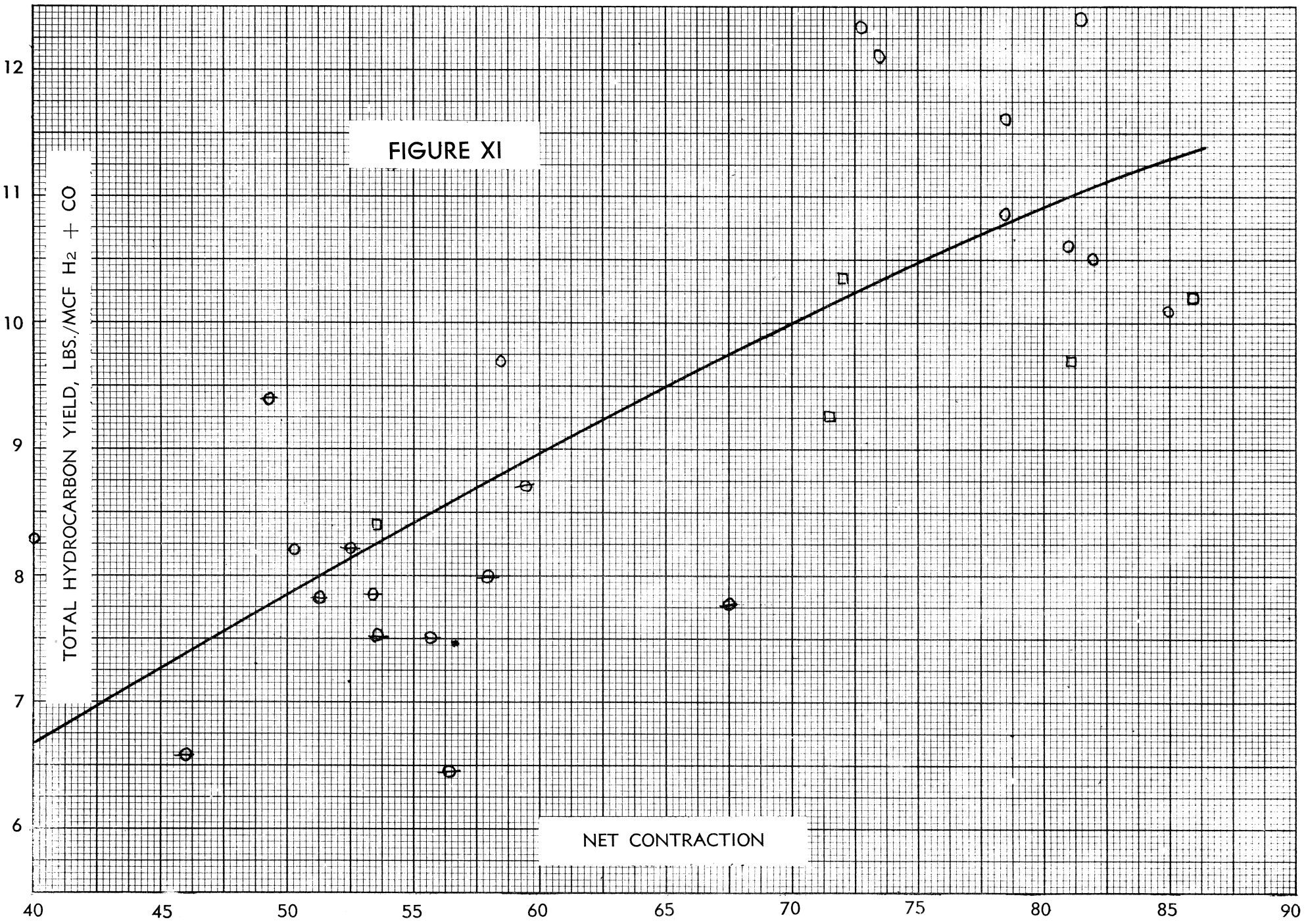


FIGURE XI



These data give some indication of catalyst life; but because of other variables such as catalyst carry-over rate, catalyst recharge rate, bed height, and physical condition of catalyst, no reliable conclusion can be made concerning catalyst life.

Run No.	Yield-gal/MCF H <sub>2</sub> & CO		Production-gal/# Cat. Chgd.	
	<u>Instantaneous</u>	<u>Cumulative</u>	<u>Instantaneous</u>	<u>Cumulative</u>
17A	1.082	1.082	0.129	0.129
17B	0.950	0.980	0.382	0.511
17C	1.028	1.001	0.429	0.940
17D	1.081	1.026	0.441	1.380
17E	1.023	1.025	0.432	1.812
17F	1.016	1.023	0.403	2.215
17G	1.021	1.023	0.394	2.610
17H	1.151	1.040	0.454	3.064
17I	1.303	1.071	0.517	3.580
17J	0.976	1.061	0.378	3.958
17K	0.965	1.052	0.382	4.341
17L	0.895	1.038	0.355	4.695
17M	0.832	1.022	0.329	5.025
22A	0.990	0.990	0.488	0.488
22B	0.959	0.973	0.561	1.049
22C	1.280	1.080	0.595	1.439
22D	1.414	1.170	0.548	1.693
22E	1.533	1.243	0.447	1.784
22F	1.507	1.289	0.424	2.108
22G	1.583	1.399	0.411	2.520
22H	1.513	1.413	0.402	2.921
22I	1.431	1.415	0.354	3.012
22J	1.428	1.417	0.342	3.216
27A	0.981	0.981	0.361	0.361
27B	1.09	1.05	0.638	0.886
27C	1.00	1.03	0.603	1.492
27D	1.04	1.04	0.611	2.10
27E	1.40	1.08	0.439	2.542