

CATALYST HISTORY

It is apparent from the above, that the history of the catalyst used in Run 15 is not clear cut. The inventory record is as follows:

Fresh catalyst charged to Run 14	1129	lbs.
Water recovered during reduction	289	
Net reduced catalyst	<u>840</u>	
Catalyst removed during Run 14	299	
Inventory at start of Run 15	<u>541</u>	
Catalyst removed during Run 15	<u>144</u>	
Inventory at end of Run 15	<u>397</u>	
Catalyst removed after Run 15		
From standpipe	138	
From reactor	50	
Total	<u>188</u>	

Unaccounted for	109
	<u>209</u>

Since a substantial quantity of catalyst was removed from the standpipe by steaming and washing with water at the end of Run 15, it may be assumed that the unaccounted for catalyst was largely lost in this operation. The catalyst inventory in the reactor at the start of Run 15 would be on this basis:

Total inventory	541
Standpipe inventory	
Recovered at end of run	138
Lost in washing	109
Total	<u>247</u>
Net reactor inventory at start of run	294

This figure is, of course, quite uncertain but is in reasonable agreement with the reading of the differential gage across the reactor which indicated a catalyst inventory of 268 lbs. Since this gage agreed well with the quantity of catalyst removed from the reactor at the end of the run, the 268 lb. inventory figure has been used.