

APPENDIX F

XRF CALIBRATION AND SAMPLE EXPERIMENT

Table F.1. Cobalt Standards for XRF Analysis.

<u>Standard</u>	<u>Bakers' Cobalt</u>	<u>MCB's Activated</u>	<u>Brinkmann's Avicel</u>	<u>Cobalt wt. %</u>
	<u>Oxide in gm.</u>	<u>Alumina in gm.</u>	<u>Microcrystalline</u>	
	<u>(72.1 wt. % Co.)</u>	<u>(150 mesh)</u>	<u>Cellulose in gm.</u>	
Co-5	0.0139	0.1861	0.4000	5
Co-10	0.0277	0.1723	0.4000	10
Co-15	0.0416	0.1584	0.4000	15
Co-20	0.0555	0.1445	0.4000	20
Co-25	0.0693	0.1307	0.4000	25
Co-30	0.0832	0.1168	0.4000	30
Co-35	0.0971	0.1029	0.4000	35
Co-40	0.1110	0.0890	0.4000	40

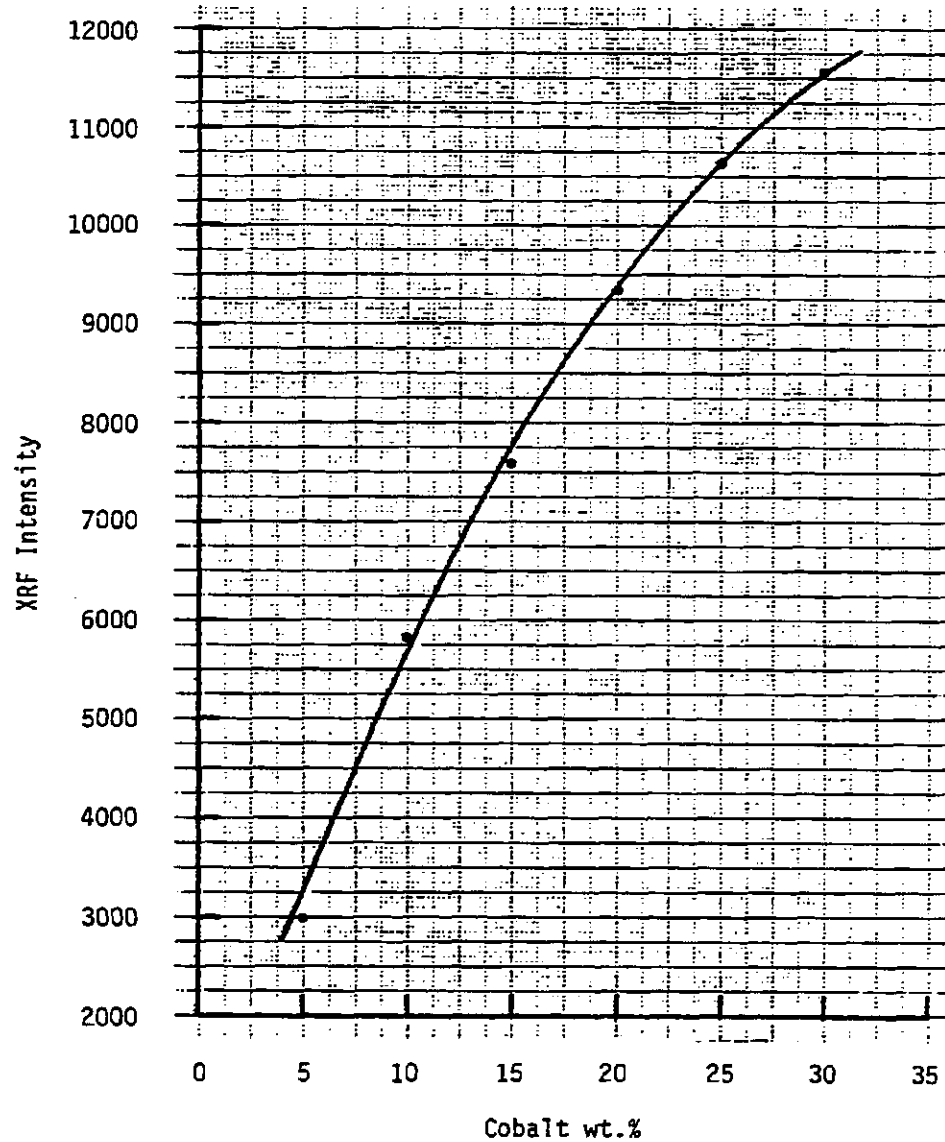


Figure F.1. XRF Calibration for Cobalt Scanning.

Table F.2. XRF Analysis for Bulk Cobalt Content
in Catalyst.

Sample	XRF Intensity			Cobalt wt.%
	One-side	Other-side	Net	
Co-5	2646.25	3306.74	2976.50	5.0
Co-10	6103.28	5520.24	5811.76	10.0
Co-15	7583.53	7613.40	7598.47	15.0
Co-20	9337.45	9363.43	9350.44	20.0
Co-25	10656.90	10601.90	10629.90	25.0
Co-30	11559.70	11569.20	11564.45	30.0
Ref.35A	6158.26	7461.42	6809.84	12.6
Ref.35B	5198.48	5556.78	5377.63	9.3
Ref.35C	5818.56	5438.81	5628.69	9.9
Ref.35D	6299.83	6410.21	6355.02	11.6

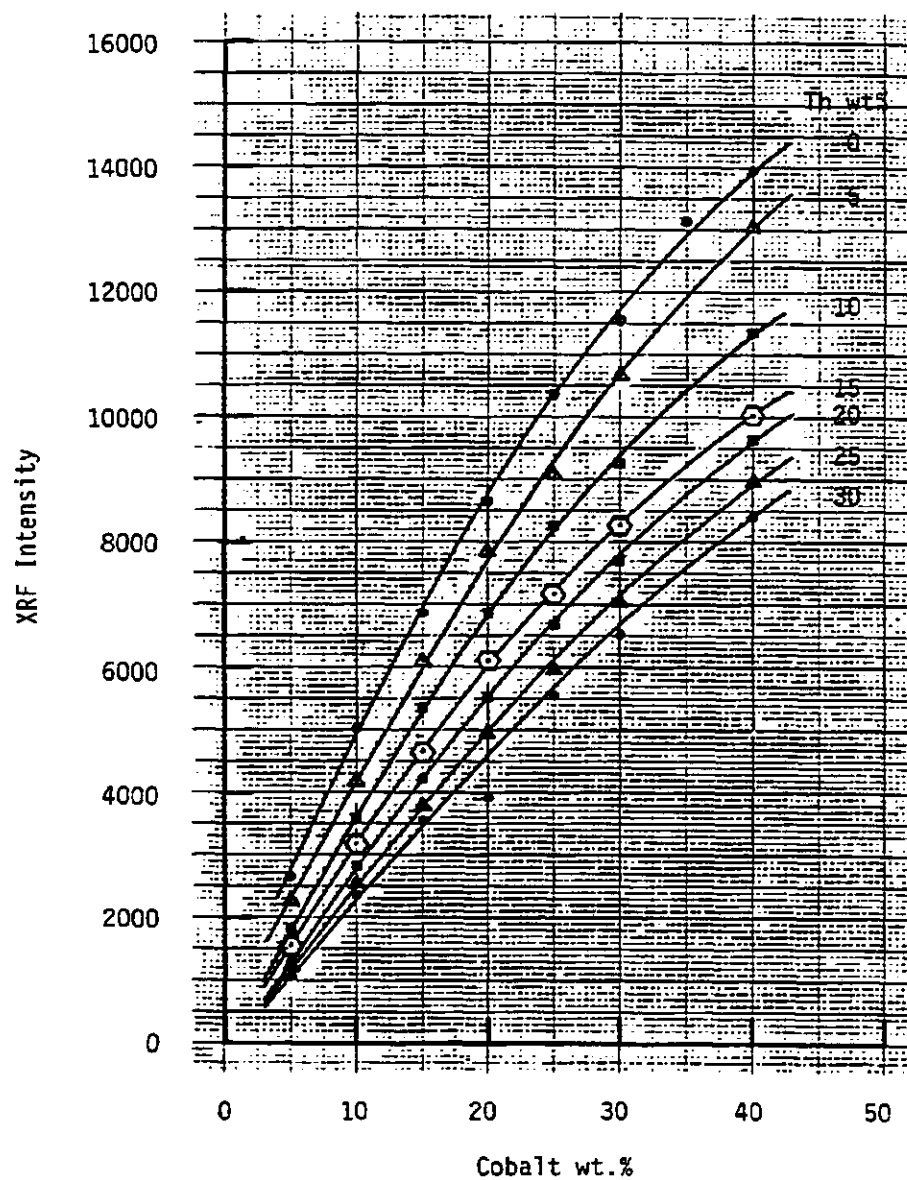


Figure F.2. XRF Calibration for Cobalt Scanning
in Thorium Promoted Catalyst.