



FIGURE 1. MAP OF THE BUCKHORN QUADRANGLE, KENTUCKY, SHOWING THE OUTCROPS OF THE PRINCIPAL COAL BEDS AND THE STRUCTURE OF THE FIRE CLAY COAL BED

FIGURE 2. MAP OF THE BUCKHORN QUADRANGLE, KENTUCKY, SHOWING THE MINED AREAS AND THICKNESSES OF THE PRINCIPAL COAL BEDS

TABLE 1. ESTIMATED RESERVES IN THE FIRE CLAY, FIRE CLAY RIDER, HAZARD, AND HAZARD NO. 7 COAL BEDS, BUCKHORN QUADRANGLE, KENTUCKY

Cutter corners	Original reserves																		Residual reserves to Nov. 1, 1950																
	Measured					Indicated					Inferred					Total					Mined and test pits 1940-49 included as reserves					Measured reserves identical with original indicated and inferred reserves					Total remaining reserves and inferred reserves				
	In beds 14 to 25 in. thick	In beds 26 to 42 in. thick	In beds 43 to 59 in. thick	Total	In beds 14 to 25 in. thick	In beds 26 to 42 in. thick	In beds 43 to 59 in. thick	Total	In beds 14 to 25 in. thick	In beds 26 to 42 in. thick	In beds 43 to 59 in. thick	Total	In beds 14 to 25 in. thick	In beds 26 to 42 in. thick	In beds 43 to 59 in. thick	Total	In beds 14 to 25 in. thick	In beds 26 to 42 in. thick	In beds 43 to 59 in. thick	Total	In beds 14 to 25 in. thick	In beds 26 to 42 in. thick	In beds 43 to 59 in. thick	Total											
FIRE CLAY COAL																																			
T9 1	1,750	916	—	2,666	—	—	—	—	—	—	—	1,750	916	—	—	2,666	1,750	916	—	—	2,666	1,750	916	—	2,666										
T9 2	10,300	1,110	—	11,410	—	—	—	—	—	—	—	10,300	1,110	—	—	11,410	10,300	1,110	—	—	11,410	10,300	1,110	—	11,410										
T9 3	4,012	1,086	—	5,098	—	—	—	—	—	—	—	4,012	1,086	—	—	5,098	4,012	1,086	—	—	5,098	4,012	1,086	—	5,098										
T9 4	7,984	1,424	—	9,408	—	—	—	—	—	—	—	7,984	1,424	—	—	9,408	7,984	1,424	—	—	9,408	7,984	1,424	—	9,408										
T9 5	13,730	1,480	—	15,210	—	—	—	—	—	—	—	13,730	1,480	—	—	15,210	13,730	1,480	—	—	15,210	13,730	1,480	—	15,210										
T9 6	4,280	1,712	—	5,992	—	—	—	—	—	—	—	4,280	1,712	—	—	5,992	4,280	1,712	—	—	5,992	4,280	1,712	—	5,992										
Total	47,071	8,618	—	55,689	—	—	—	—	—	—	—	47,071	8,618	—	—	55,689	47,071	8,618	—	—	55,689	47,071	8,618	—	55,689										
FIRE CLAY RIDER COAL																																			
T9 7	8,466	10,320	—	18,786	1,881	—	—	12,315	4,468	—	—	4,461	24,266	14,708	—	—	58,969	531	8,466	12,789	—	21,653	8,466	12,789											
T9 8	15,151	9,711	—	24,862	3,211	—	—	3,912	1,586	—	—	1,586	19,872	13,008	—	—	30,854	1,518	15,151	9,711	—	24,862	15,151	9,711											
T9 9	13,889	8,112	—	21,999	8,112	—	—	9,215	3,781	—	5,793	—	—	—	—	—	13,889	8,112	—	—	—	21,999	8,112	—											
T9 10	11,677	5,814	—	17,491	3,908	—	—	6,616	2,596	—	—	—	33,226	2,097	—	—	33,226	2,097	—	—	—	17,491	3,908	—											
T9 11	16,818	30,484	2,007	49,309	4,491	1,112	—	—	—	—	—	—	30,484	2,007	—	—	49,309	4,491	2,007	—	—	49,309	4,491	2,007											
T9 12	16,856	30,484	2,007	49,309	4,491	1,112	—	—	—	—	—	—	17,750	19,008	—	—	37,299	97	16,856	30,484	2,007	49,309	16,856	30,484											
T9 13	7,869	1,081	—	8,950	3,312	—	—	—	—	—	—	—	7,869	1,081	—	—	8,950	3,312	—	—	—	8,950	3,312	—											
T9 14	13,730	1,480	—	15,210	1,712	—	—	—	—	—	—	—	13,730	1,480	—	—	15,210	1,712	—	—	—	15,210	1,712	—											
T9 15	14,190	29,115	2,004	45,309	3,490	—	—	—	—	—	—	—	17,074	24,008	2,004	4,414	600	14,190	29,115	2,004	45,309	14,190	29,115	2,004											
Total	118,710	130,997	6,018	255,725	32,127	1,671	—	69,888	12,077	2,785	—	15,962	188,419	146,688	6,018	335,495	8,137	113,077	128,428	6,678	244,568	108,564	28,826	161,489											
Recoverable reserves as of November 1, 1950, assuming 10 percent recovery																																			
HAZARD COAL																																			
T9 16	904	5,117	—	6,021	1,140	—	—	—	1,140	—	—	10,008	1,140	9,338	—	—	1,140	—	904	5,117	—	6,021	904	5,117											
T9 17	2,409	910	—	3,319	2,488	1,469	—	1,299	467	5,120	899	24	6,942	7,592	6,088	3,478	177	2,409	910	—	3,319	2,409	910	—											
T9 18	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	—	9,703	10,008	668	—	—	2,409	910	—	3,319	2,409	910	—											
T9 19	915	—	—	915	4,233	—	—	4,444	17,520	9,027	1,185	—	9,132	15,622	13,927	5,160	3,460	915	—	—	915	915	—	—											
T9 20	—	—	—	—	1,271	—	—	—	—	—	—	—	1,787	15,327	10,537	—	—	40,784	320	904	8,947	—	11,951	8,947											
Total	10,295	17,449	3,014	31,229	36,504	29,279	5,643	79,956	27,948	7,816	24	34,808	74,197	54,545	9,181	137,923	467	10,295	17,449	3,014	31,229	10,295	17,449	3,014											
Recoverable reserves as of November 1, 1950, assuming 10 percent recovery																																			
HAZARD NO. 7 COAL																																			
T9 21	1,618	5,862	967	8,447	919	30,778	1,143	32,798	—	—	—	1,618	5,862	967	8,447	919	32,466	—	1,618	5,862	967	8,447	919	32,466											
T9 22	275	1,268	—	1,543	460	—	—	—	—	—	—	275	1,268	—	—	—	1,543	460	—	275	1,268	—	—	—											
T9 23	4,236	24,400	7,609	36,245	83	6,779	1,143	43,127	—	—	—	4,236	24,400	7,609	—	—	36,245	83	6,779	1,143	43,127	4,236	24,400	7,609											
T9 24	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 25	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 26	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 27	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 28	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 29	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 30	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 31	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 32	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 33	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 34	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 35	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 36	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 37	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 38	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 39	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 40	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 41	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 42	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 43	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 44	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 45	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 46	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 47	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 48	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 49	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 50	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 51	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 52	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 53	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2,409	910	—	—	—											
T9 54	2,409	910	—	3,319	2,488	1,469	—	—	—	—	—	2,409	910	—	—	—	3,319	2,488	—	2															