



UPPER FREEPORT "E" SEAM COAL			
ESTIMATED RECOVERABLE COAL			
WITH ALLOWANCE FOR FAULTS, LOW COAL, UNFAVORABLE CONDITIONS			
PROPERTY AVAILABLE RECOVERABLE TONS			
BUTLER CONSOLIDATED COAL CO.	800	100	4,100,000
BLACK DIAMOND COAL COMPANY	264	206	4,100,000
ROY A. ORR	263	263	700,000
CLAIRE DAVIS COAL COMPANY	81	75	750,000
PROPERTIES TO BE ACQUIRED	847	724	1,810,000
TOTAL RECOVERABLE TONS 3,464 3,066 7,590,000			

LEGEND

PROPERTY MAP

SOUTH MAHONING WASHINGTON TOWNSHIP, INDIANA COUNTY, PENNSYLVANIA

SHOWING

PROPERTIES AND MINED OUT AREAS OF BUTLER CONSOLIDATED COAL CO. BLACK DIAMOND COAL COMPANY ROY A. ORR CLAIRE DAVIS COAL COMPANY

DIAMOND TEST HOLE DRILLING

DESCRIPTION LOG OF OVERBURDEN

CROSS SECTION GRAPH OF COAL

ANALYSES OF COAL

PROPERTIES TO BE ACQUIRED

ESTIMATE OF RECOVERABLE COAL

PREPARED BY K.O. SHANER AUG. 12, 1972

SCALE 1 INCH = 400 FT.

I MAPS #19730

CLAIRE DAVIS MINE			
COAL ANALYSES			
UPPER FREEPORT "E" SEAM			
CHANNEL SAMPLE NO. 1		CHANNEL SAMPLE NO. 2	
MAIN HEADINGS		RIGHT WINGING	
MOISTURE	2.0 %	MOISTURE	2.1 %
PLASTIC MATTER	29.0 %	PLASTIC MATTER	24.3 %
FIXED CARBON	54.4 %	FIXED CARBON	44.0 %
ASH	3.3 %	ASH	9.4 %
SWELLER	2.0 %	SHELLER	1.6 %
B.T.U.	13,379	B.T.U.	13,389
PRISM POINT	2484°	PRISM POINT	2455°
COKE BOTTOM NO.	8	COKE BOTTOM NO.	8

DIAMOND DRILL HOLE NO. 2		DIAMOND DRILL HOLE NO. 3	
DRILLED 8-7-72		DRILLED 8-7-72	
L.O.D.		L.O.D.	
SURFACE EL. 1285		SURFACE EL. 1287	
0-10 20-10 TOP SOIL AND CLAY		0-10 20-10 TOP SOIL AND CLAY	
10-10 41-10 DARK SHALE		10-10 41-10 DARK SHALE	
41-10 45-10 DARK FOSSIL SHALE		41-10 45-10 DARK FOSSIL SHALE	
45-10 80-10 GREEN SANDY SHALE		45-10 80-10 GREEN SANDY SHALE	
80-10 100-10 DARK SANDY SHALE		80-10 100-10 DARK SANDY SHALE	
100-10 107-10 DARK FOSSIL SHALE		100-10 107-10 DARK FOSSIL SHALE	
107-10 108-10 COAL 1"		107-10 108-10 COAL 1"	
108-10 109-10 GREEN SANDY SHALE		108-10 109-10 GREEN SANDY SHALE	
109-10 111-10 DARK SHALE		109-10 111-10 DARK SHALE	
111-10 112-10 COAL 31"		111-10 112-10 COAL 31"	
112-10 113-10 COAL 25"		112-10 113-10 COAL 25"	
113-10 114-10 DARK SHALE		113-10 114-10 DARK SHALE	
114-10 115-10 DARK SHALE-CONTINUED		114-10 115-10 DARK SHALE-CONTINUED	
115-10 116-10 DARK SHALE		115-10 116-10 DARK SHALE	
116-10 117-10 SOFT SANDY CLAY SHALE		116-10 117-10 SOFT SANDY CLAY SHALE	
117-10 TOP OF COAL		117-10 TOP OF COAL	
COAL EL. 1086		COAL EL. 1076	

ANALYSIS AS RECEIVED		ANALYSIS AS RECEIVED	
DIAMOND DRILL HOLE NO. 2		DIAMOND DRILL HOLE NO. 3	
CORE BUTTON NO. 8		CORE BUTTON NO. 8	
MOISTURE 1.0%		MOISTURE 2.1%	
VOLATILE MATTER 33.1%		VOLATILE MATTER 33.1%	
FIXED CARBON 54.1%		FIXED CARBON 54.1%	
ASH 11.8%		ASH 11.8%	
SULPHUR 0.03%		SULPHUR 0.03%	
B.T.U. 12762		B.T.U. 12762	
FUSION POINT 2460*		FUSION POINT 2395*	
CORE BUTTON NO. 8		CORE BUTTON NO. 8	

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112-10 113-10 COAL 25"		112-10 113-10 COAL 25"	
113-10 114-10 DARK SHALE		113-10 114-10 DARK SHALE	
114-10 115-10 DARK SHALE-CONTINUED		114-10 115-10 DARK SHALE-CONTINUED	
115-10 116-10 DARK SHALE		115-10 116-10 DARK SHALE	
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