



NOTE:  
 TOTAL DISTURBED AREA 13.75 ACRES  
 PROPOSED CLARION "A" SEAM STRIP 12.00 A.  
 " LOWER KITTANNING "B" SEAM STRIP 15.90 A.  
 " " "B" RIDER SEAM STRIP 13.90 A.  
 " MIDDLE KITTANNING "C" SEAM STRIP 3.85 A.  
 PROPOSED AUGER MINING "A" "B" SEAMS 160'  
 DEEP OUTLINED IN RED. FEET TO 300 FEET  
 DEEP.  
 ALL SETTLING & TREATMENT PONDS, TOP  
 SOIL STORAGE & SPOILS AREAS ARE TO  
 BE WITHIN THE BONDED AREA.  
 KOFSKY & SUTOW NO. 1. M.D.P. NO. 4378 BC T

NOTE:  
 S.E. SURFACE ELEVATIONS  
 T.P. TREATMENT PONDS  
 S.P. SETTLING PONDS  
 CLARION "A" COAL & LOWER KITTANNING  
 "B" COAL UNDERLIE ENTIRE PROPERTY.

MINING PERMIT NO.	ACRES	STATUS
1905-1	3.7	MINING
	2.0	FORMERLY MINING NOW SUPPORT
	4.3	FORMERLY MINING NOW DELETED
101905-4378BCT-01-1	0.5	SUPPORT
	0.5	FORMERLY SUPPORT NOW DELETED
101905-4378BCT-01-2	0.5	SUPPORT
	0.5	FORMERLY SUPPORT NOW DELETED
101905-4378BCT-01-3	2.0	MINING
	0.3	SUPPORT
101905-4378BCT-01-4	0.4	FORMERLY SUPPORT NOW MINING
	1.6	FORMERLY SUPPORT NOW DELETED
NEW AREA	2.1	MINING
	1.8	SUPPORT
BONDING INCREMENT NO.	ACRES	STATUS
102591-17783113-01	4.76	SUPPORT
	8.9	MINING
102591-17783113-02	2.1	SUPPORT
	2.0	MINING
102591-17783113-03	2.0	MINING

- O WELL
- Δ BACKGROUND SAMPLING POINT
- DEEP MINE ENTRANCE
- G.W. → DIRECTION OF GROUND WATER FLOW
- A STRIP MINE
- AREA AFFECTED
- MINING AREA
- SUPPORT AREA
- DELETED AREA
- AUGERING AREA
- SPRING
- SWAMP
- MONITORING POINT
- FAULT
- DEEP MINE
- MINING PERMITS

REVISED: 12-19-88 AUGER SAFETY PERMIT  
 REVISED: 9-22-88 B.I. - 2.0 ACS.  
 REVISED: 12-15-87 B.I. - 3.1 ACS.  
 REVISED: 9/14/86 FOR BOND ROLLOVER  
 REVISED: 2/26/85 FOR AUGERING  
 REVISED: 5/17/84 FOR B.I. #01 (13.66 ACS.) Hess & Fisher

EXHIBIT 9 OPERATIONS MAP

MAP SHOWING PROPOSED CLARION "A"; LOWER KITTANNING "B"; LOWER KITTANNING "B RIDER"  
 AND MIDDLE KITTANNING "C" SEAM STRIPPINGS AND AUGER MINING  
 OPERATED BY GREENBRIAR ASSOCIATES KOFSKY & SUTOW NO. 1  
 BECCARIA TOWNSHIP CLEARFIELD COUNTY, PENNSYLVANIA  
 SCALE 1/200 MAY 31, 1978

FORMERLY BERNARD LUCAS ASSOC. NOW HESS & FISHER ENG., INC.