SEAL

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RANDALL LEE MUSSER
ENGINEER
30078-E

MAP IS FOR VENTILATION & SUBSIDENCE OVER

QUEMAHONING COLLIERIES

MINE NO. 1

UPPER KITTANNING SEAM

QUEMAHONING TWP., SOMERSET CO., PA

SCALE : 1" = 100' DATE : FEB 20 1995

MUSSER ENGINEERING
R.D. 1, Central City, PA 15926
(814) 754 - 8477

RECEIVED
FEB 21 1995
Dept. of Environmental Resources
McMurray District Office

DWN.	B
CKD.	
Revised	
Revised	

Subsidence Legend

Permit No. 56821304

Contemplated Mining: From _____ To _____

Amendment Area

Dwelling Constructed Prior To April 27, 1966 — Width Of SA — Length Of SA — 50 % Mining Area

Dwelling Constructed After April 27, 1966 — Width Of SA — Length Of SA — 50 % Mining Area

Minimum Plan For Protected Structures

Length Of SA = 2 (.27 x D) - 15 + L + LD (If Needed)

Width Of SA = 2 (.27 x D) + W + LD (If Needed)

Previous Six Month's Mining

Subsidence Permit Line

Definitions Of Abbreviations, Symbols, Etc., Used In Formulas & Examples

SA = Support Area Under Protected Structure From Which Only 50 % Of Coal Is Extracted

D = Depth Of Cover Of Overburden

L = Length Of Structure

15 FEET = Safety Factor

LD = Additional Support Added On Each Downhill Side Of Support Area (Required If Structure Is Located On Terrain Sloping Greater Than 5 %)

W = Width Of Structure

.27 = Tangent Of 15 Degrees