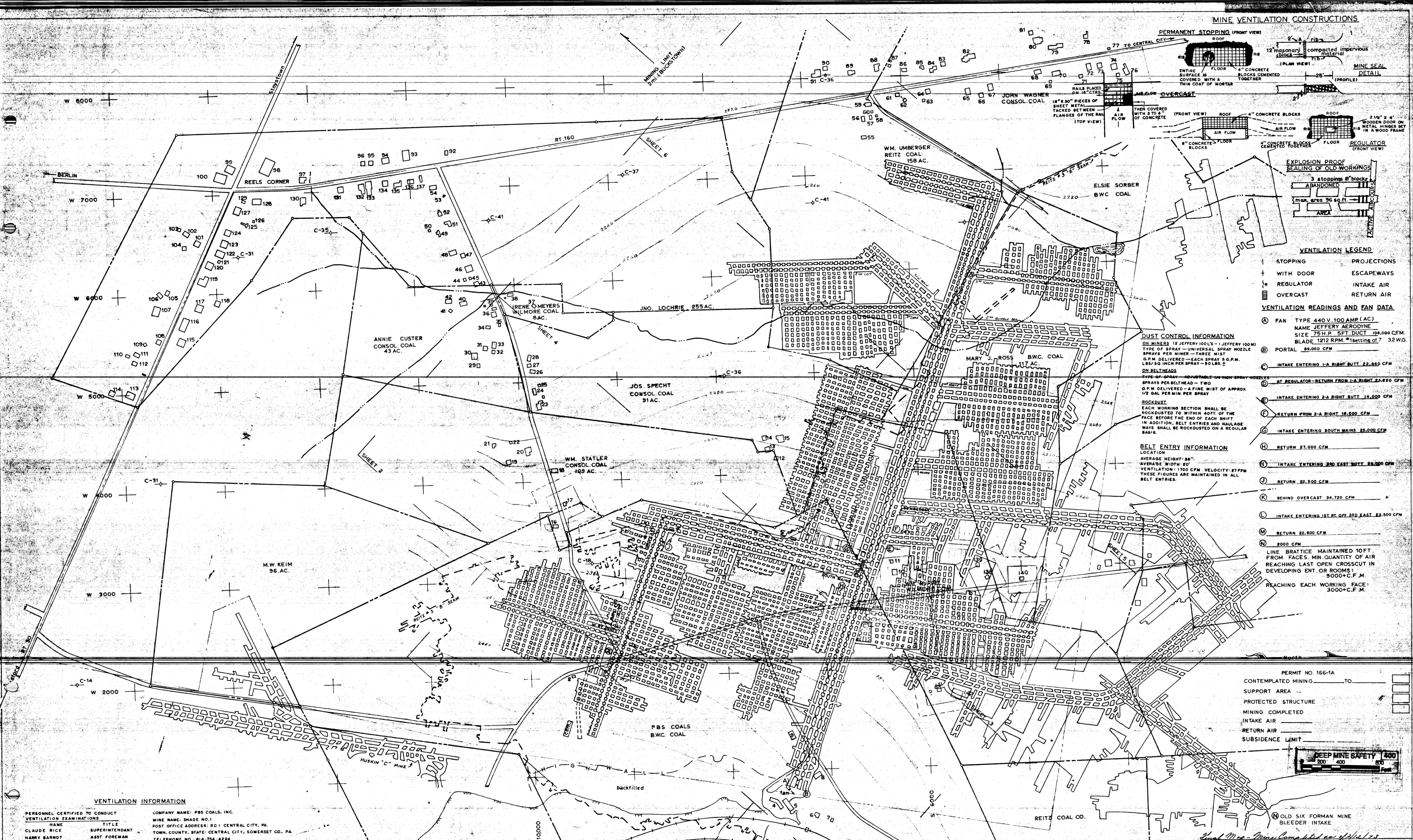
MINE VENTILATION CONSTRUCTIONS
PERMANENT STOPPING (FRONT VIEW)
ROOF
RIB
FLOOR
ENTIRE SURFACE IS COVERED WITH A THIN COAT OF MORTAR
4" CONCRETE BLOCKS CEMENTED TOGETHER
12" masonary block
compacted impervious material
(PLAN VIEW)
MINE SEAL DETAIL
(PROFILE)
OVERCAST
RAILS PLACED ON 18" CTRS
16" X 30" PIECES OF SHEET METAL TACKED BETWEEN FLANGES OF THE RAIL
THEN COVERED WITH 3 TO 4" OF CONCRETE
AIR FLOW
(TOP VIEW)
(FRONT VIEW)
4" CONCRETE BLOCKS
8" CONCRETE BLOCKS
4" CONCRETE BLOCKS CEMENTED TOGETHER
2 1/2" X 4' WOODEN DOOR ON METAL HINGES SET IN A WOOD FRAME
REGULATOR (FRONT VIEW)
EXPLOSION PROOF SEALING OF OLD WORKINGS
3 stoppings 8" blocks
ABANDONED
max. area 96 sq.ft.
AREA
ACCESS DOOR
VENTILATION LEGEND
STOPPING
WITH DOOR
REGULATOR
OVERCAST
PROJECTIONS
ESCAPEWAYS
INTAKE AIR
RETURN AIR
VENTILATION READINGS AND FAN DATA
(A) FAN TYPE 440 V. 100 AMP (AC)
NAME JEFFERY AERODYNE
SIZE 75 H.P. 5FT. DUCT 106,000 CFM.
BLADE 1212 R.P.M. #1 setting of 7 3.2 W.G.
(B) PORTAL 89,000 CFM
(C) INTAKE ENTERING 1-A RIGHT BUTT 22,440 CFM
(D) AT REGULATOR-RETURN FROM 1-A RIGHT 23,820 CFM
(E) INTAKE ENTERING 2-A RIGHT BUTT 14,000 CFM
(F) RETURN FROM 2-A RIGHT 16,000 CFM
(G) INTAKE ENTERING SOUTH MAINS 25,000 CFM
(H) RETURN 27,000 CFM
(I) INTAKE ENTERING 3RD EAST BUTT 26,000 CFM
(J) RETURN 22,500 CFM
(K) BEHIND OVERCAST 34,720 CFM
(L) INTAKE ENTERING 1ST RT OFF 3RD EAST 23,500 CFM
(M) RETURN 22,600 CFM
(N) 2000 CFM
LINE BRATTICE MAINTAINED 10 FT. FROM FACES. MIN. QUANTITY OF AIR REACHING LAST OPEN CROSSCUT IN DEVELOPING ENT. OR ROOMS: 9000 * C.F.M.
REACHING EACH WORKING FACE: 3000 * C.F.M.
DUST CONTROL INFORMATION
ON MINERS (2 JEFFERY 100 L'S - 1 JEFFERY 100 M)
TYPE OF SPRAY — UNIVERSAL SPRAY NOZZLE
SPRAYS PER MINER — THREE MIST
G.P.M. DELIVERED — EACH SPRAY 5 G.P.M.
LBS/SQ INCH PER SPRAY — 50 LBS. ±
ON BELTHEADS
TYPE OF SPRAY — ADJUSTABLE 1/4 INCH SPRAY NOZZLES
SPRAYS PER BELTHEAD — TWO
G.P.M. DELIVERED — A FINE MIST OF APPROX. 1/2 GAL PER MIN. PER SPRAY
ROCKDUST
EACH WORKING SECTION SHALL BE ROCKDUSTED TO WITHIN 40 FT. OF THE FACE BEFORE THE END OF EACH SHIFT. IN ADDITION, BELT ENTRIES AND HAULAGE WAYS SHALL BE ROCKDUSTED ON A REGULAR BASIS.
BELT ENTRY INFORMATION
LOCATION
AVERAGE HEIGHT: 38".
AVERAGE WIDTH: 20'
VENTILATION: 1700 CFM VELOCITY: 27 FPM
THESE FIGURES ARE MAINTAINED IN ALL BELT ENTRIES.
PERMIT NO. 166-1A
CONTEMPLATED MINING _____ TO _____
SUPPORT AREA
PROTECTED STRUCTURE
MINING COMPLETED
INTAKE AIR
RETURN AIR
SUBSIDENCE LIMIT
DEEP MINE SAFETY 400
200 400 800 Feet
VENTILATION INFORMATION
PERSONNEL CERTIFIED TO CONDUCT VENTILATION EXAMINATIONS
NAME TITLE
CLAUDE RICE SUPERINTENDANT
HARRY BARNOT ASST FOREMAN
JOSEPH KUBAS " "
JOHN GARY " "
CHARLES PIPTA " "
DETECTION EQUIPMENT USED
SAFETY LAMPS
METHANE DETECTORS
NO METHANE DETECTED IN THE RETURN AIR COURSES
COMPANY NAME: PBS COALS, INC.
MINE NAME: SHADE NO. 1
POST OFFICE ADDRESS: RD 1 CENTRAL CITY, PA.
TOWN, COUNTY, STATE: CENTRAL CITY, SOMERSET CO., PA.
TELEPHONE NO.: 814-754-4294
USBM IDENTIFICATION NO: 3600947-0
OPERATOR'S NAME: JOSEPH CAOLA — J R SALES COAL CO.
OPERATOR'S TITLE: PRESIDENT
OPERATOR'S ADDRESS: BOX 336 JEROME, PA.
OPERATOR'S PHONE NO: 814-479-4827
LIFE OF MINE IS LESS THAN ONE YEAR
NUMBER OF EMPLOYEES SURFACE 4
UNDERGROUND 49
TOTAL 51
NO OIL OR GAS WELLS KNOWN
Final Map - Mine Completed on 4/31/73
PBS COALS INC.
SHADE NO. 1 COAL MINE
UPPER KITTANNING
SHADE TWP. SOMERSET CO.
PENNSYLVANIA
SCALE: 1" = 400'
REVISED
FEB 12 1973
#8458
1-14-2000
C.C.
COMMONWEALTH OF PENNSYLVANIA
REGISTERED
DONALD R. DUNCAN
SURVEYOR
16228-E
PENN
RD #
BERLIN
REELS CORNER
Stoystown
MINING LIMIT 2 mi. (BUCKSTOWN)
RT. 160
SHEET 6
SHEET 2
SHEET 4
SHEET 5
SHEET 3
SHEET 1A
SHEET 1
WM. UMBERGER REITZ COAL 158 AC.
ELSIE SORBER B.W.C. COAL
JOHN WAGNER CONSOL. COAL
IRENE O. MEYERS WILMORE COAL 8 AC.
JNO. LOCHRIE 255 AC.
ANNIE CUSTER CONSOL. COAL 43 AC.
JOS. SPECHT CONSOL. COAL 91 AC.
MARY J. ROSS B.W.C. COAL 117 AC.
WM. STATLER CONSOL. COAL 109 AC.
M.W. KEIM 96 AC.
PBS COALS B.W.C. COAL
REITZ COAL CO.
CHAS. SORBER
HUSKIN "C" MINE
HIGHWAY
backfilled
SETTLING POND
OLD SIX FORMAN MINE BLEEDER INTAKE
REITZ #3 8" SEAM
North
W 8000
W 7000
W 6000
W 5000
W 4000
W 3000
W 2000
S 10000
S 8000