



**— LEGEND —**

- DEEP MINE PERMIT BOUNDARY
- STREAMS
- ROADS
- KEY NUMBER TO INDIVIDUAL PROPERTY OWNERS (99)
- BARRIER LINES
- COAL CONTOURS (Berley of Coal)
- DIVERSION DITCHING
- PROPERTY LINES
- DWELLINGS or PUBLIC BLDG'S
- BARNs, GARAGES, SHEDS, or OTHER BLDG'S
- UTILITY LINES
- FINAL "B" SEAM HIGHWALL
- PROJECTED MINING
- COLLECTION DITCHES

I, Randall L. Musser, a Professional Land Surveyor in the Commonwealth of Pennsylvania, hereby certify that the surveying and mine mapping conducted by Musser Engineering, Inc. after June 1, 1993, was conducted in accordance with generally accepted surveying standards for the mining industry, and is true and correct to the best of my knowledge and belief. All base map preparation for the mine, and all mine surveying and mapping prior to June 1, 1993, was conducted by and certified by the engineering staff of Valley Coal Company and is not the responsibility of Musser Engineering, Inc.

**AIR MONITORING STATION**

- CH<sub>4</sub> - 0.00%, O<sub>2</sub> - 20.7%
- CH<sub>4</sub> - 0.00%, O<sub>2</sub> - 20.8%
- CH<sub>4</sub> - 0.00%, O<sub>2</sub> - 20.8%

**BELT MONITORING STATION**

- BM-1, 36" 62'/M
- BM-2, 42" 79'/M
- BM-3, 48" 65'/M
- BM-4, 48" 68'/M
- BM-5, 54" 35'/M
- BM-6, 42" 42'/M
- BM-7, 42" 56'/M

**AIR READINGS**

- 8,200 C.F.M.
- 3,720 C.F.M.
- 78,200 C.F.M. METHANE: 0.00%
- 60,200 C.F.M. METHANE: 0.00%
- 44,000 C.F.M.
- 25,110 C.F.M. METHANE: 0.00%
- 14,300 C.F.M. METHANE: 0.00%
- 12,000 C.F.M. METHANE: 0.00%
- 6,000 C.F.M. METHANE: 0.00%
- 24,600 C.F.M. METHANE: 0.00%
- 15,600 C.F.M. METHANE: 0.00%
- 14,300 C.F.M. METHANE: 0.00%
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**Ventilation Legend**

- Intake Air
- Return Air
- Reduced Air Flow
- Primary Escapeway
- Alternate Escapeway
- Canvas Check
- Permanent Stopping
- Cave or Bad Roof Area
- Seal
- Door
- Regulator
- Overcast
- Belt Haulage
- Airlock
- Intake Evaluation Point
- Bleeder Evaluation Point
- Proposed Stopping
- NOT SURVEYED

**Subsidence Legend**

- Previous Six-Month's Mining
- Contemplated Mining
- Mining Completed
- Subsidence Control Plan Boundary
- Occupied Dwellings
- Unoccupied Structures
- SUPPORT AREAS
- No Mining Within
- 50 Percent Mining Only Within

NOTE: Any Pillar That Straddles A Support Line Will Remain In Place.

**— MAN DATA —**

Location: NO. 4 ENTRY - OFFSET 15 FT.  
 MIN. INDUSTRIAL WELDING CO. Fan Type: ARIDYNE  
 Size: 54 INCHES R.O.M. 7,800  
 Water Sump Reading  
 Air Quantity: C.F.M. - EXHAUSTING  
 Blower Setting: FIXED  
 Horsepower: 75 Voltage: 480 Amperes: 87/61  
 M00 5405

NOTE: Overburden Thickness Between The Bottoms Of The Treatment Ponds And The Coal Seam Are Approximated As Follows:  
 Pond No. 1: 156.09 Ft.  
 Pond No. 2: 165.11 Ft.  
 Pond No. 3: 115.44 Ft.

The Lower Freepool Coal Seam above has been mined by the Bethlehem Mines Corp., Hillwood No. 1 & No. 2 Mine.

**FINAL MAP**  
4/30/98

PREPARED FOR:  
**VALLEY COAL COMPANY**  
 P.O. Box 86, Alverda, Pennsylvania 15710

**LEONARD RUN NO. 1 MINE**  
 LOWER KITTANNING COAL SEAM  
 MINE I.D. NO. 36-08084

SITUATE:  
 PINE TOWNSHIP, INDIANA COUNTY,  
 PENNSYLVANIA

RD. 1 Central City, PA 15926  
 (814) 754-8477  
**Musser Engineering Inc.**

The Individual(s) Responsible For The Information On This Map Are:  
 FRANK POPOHIN Mine Foreman  
 DATE