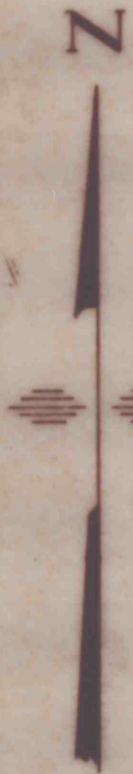


LEGEND

- ▭ J&L STEEL CORP CONTROLLED PROPERTY
- J&L 20
- DRILL HOLES (OTHERS)
- OUTCROP-PITTSBURGH SEAM
- ▲ MINING DATA POINTS (J&L STEEL CORP)
- △ MINING DATA POINTS (JOHN T BOYD CO)
- 4.0%
- ▨ MINE WORKINGS
- GAS WELLS
- ACTIVE MINE FACE

RAW COAL SULFUR CONTENT ZONES

▭ 2%	▭ 3%-4%
▭ 2% 3%	▭ +4%



NOTE COORDINATE SYSTEM (GRIDS)
J&L STEEL CORPORATION

MAP SHOWING
%SULFUR CONTENT - (ROM DRY)
PITTSBURGH SEAM
SHANNOPIN PROPERTIES
GREENE CO., PENNSYLVANIA
PREPARED FOR
JONES & LAUGHLIN STEEL CORPORATION
SCALE 1" = 2000 FT.
JOHN T. BOYD COMPANY
MINING & GEOLOGICAL ENGINEERS
JANUARY 1978
EXHIBIT 4

