APPENDIX D

	Page
Mapping Procedure	D1
Index Map Area #1 through Area #8	D2

APPENDIX D-DETAILED TOPOGRAPHY OPERATION SCARLIFT TOBY CREEK SL-132

MAPPING PROCEDURE

The procedure used to determine the relative locations of the mines and strip mines was as follows:

Aerial photogrammetry at a scale of 1 inch equals 200 feet was compiled for all strip mined areas and was also used to locate all visible mine openings. Mine maps, obtained from local mining companies were reproduced at the same scale so that they could be superimposed upon the maps of the surface topography. Mine headings visible on the topographic maps were used to properly orient the mine maps. It should be noted that the maps of Areas Number 1 to Number 8, as included in this report, were photo-reduced. The scale of the reduced prints is approximately 1 inch equals 550 feet. The results led to the conclusions that much of the strip mining in the Middle Kittanning seam was, as supposed, directly above the old deep mine workings in the Lower Kittanning Seam. In a number of locations it was also evident that the strip mining operations had broken into the deep mine workings. The remifications of these findings were quite significant to decisions regarding abatement measures. Where the situation existed on the low side of the mining system it complicated the problem of installing simple hydraulic seals and flooding the mine. In face, when the extent of this problem was fully appreciated, the decision was made not to attempt to flood the mine. This decision was made after weighing the risk of a sudden breakout and considering the consequences of such a breakout. The use of a few low-head seals was not ruled out, however, where they could be used to divert flows to other locations, to have all the discharge exit from one heading.























