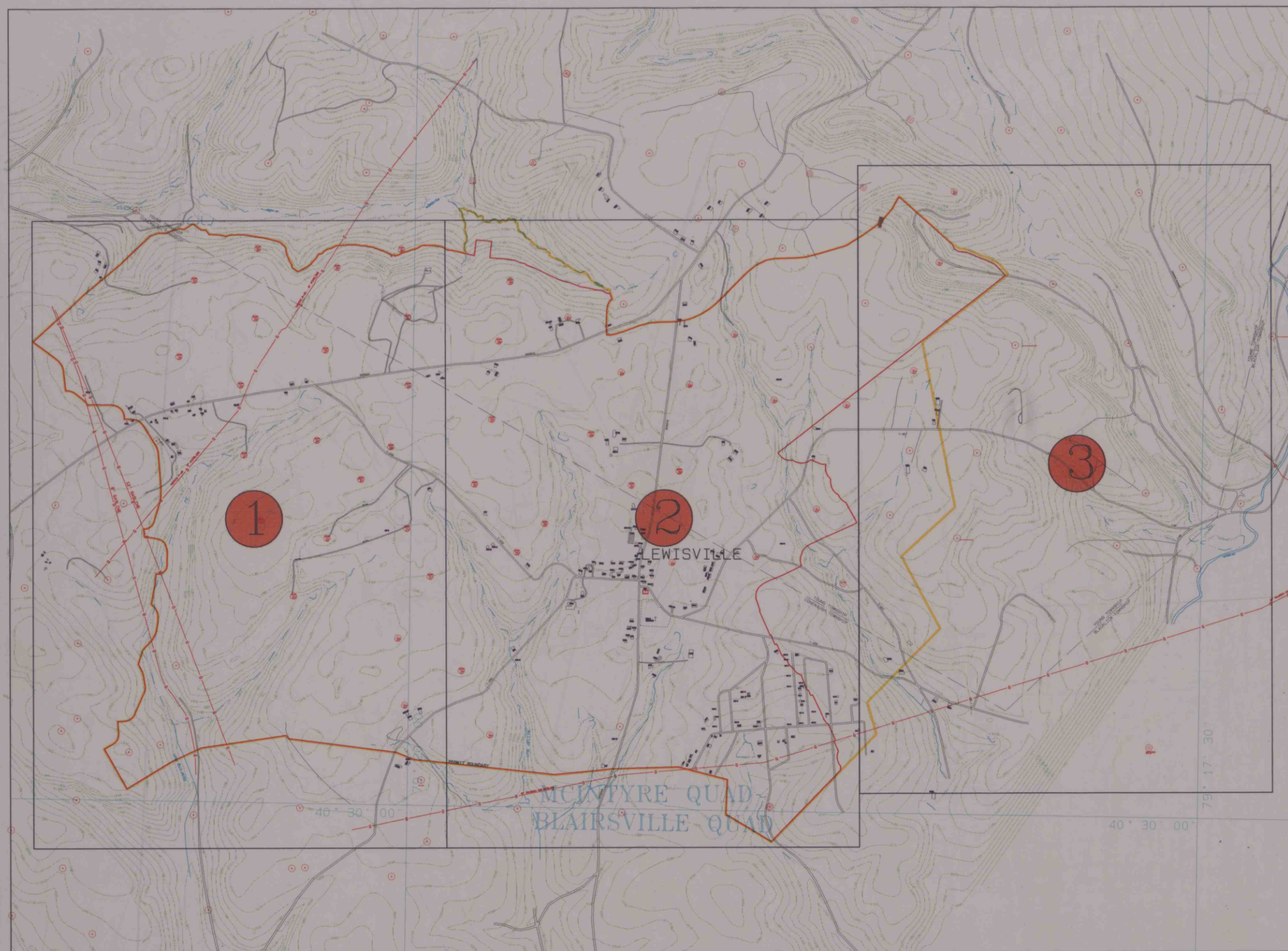


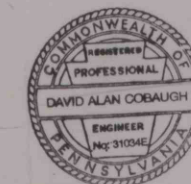
HELVETIA COAL COMPANY MARSHALL RUN MINE PERMIT NO. 32921302 UPPER KITTANNING SEAM CONEMAUGH AND YOUNG TOWNSHIPS INDIANA COUNTY, PENNSYLVANIA POSTING DATE 9-1-97 TO 3-1-98



SCALE 1" = 1000'

INDEX FOR 1" = 200' MINE MAPS
MCINTYRE U.S.G.S. QUADRANGLE

● = MAPS SUBMITTED



SEAL —

SIGNATURE *David A. Cobaugh*

MAPS DEPICT CONTEMPLATED MINING
FROM 9-1-1997
TO 3-1-1998

PREPARED BY MICHAEL P. KEITH

LEGEND

- | | | | |
|--|--|--|---------------------|
| — PERMIT BOUNDARY | ● GAS WELL | ● BOREHOLE (MINE OPENINGS) | — BRIDGE |
| — SUBSIDENCE CONTROL PLAN BOUNDARY | ● WATER WELL | ○ DRILL HOLE | — CULVERT |
| — 6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE) | ● SPRING | □ STRUCTURE | — RAILROAD |
| — NO MINING ZONE | ● POND/IMPOUNDMENT | □ PROTECTED STRUCTURE | — SWAMP/MARSH |
| — DEPTH OF COVER LINE | — FLOW MEASUREMENT PT. | ○ BACKGROUND GROUNDWATER SAMPLE PT. | — DITCH - OR DRAINS |
| — PRIOR DEEP AND SURFACE MINING | — PERENNIAL STREAM | ○ EXISTING GROUNDWATER MONITORING PT. | |
| — PROTECTED AREA - SUBSIDENCE (25° ANGLE OF DRAW) | — INTERMITTENT STREAM | ☆ BACKGROUND SURFACE SAMPLE PT. | |
| | — PIPELINE/U-GROUND CABLE size, oil or gas labeled | — SURFACE WATER MONITORING PT. (existing & proposed) | |
| | — PROPERTY LINE | — CHURCH | |
| | — POWER LINE (500 KVA or larger) | — CEMETERY | |
| | — COAL CONTOUR LINE | — PILLARED | |
| | — CROPLINE | — UNIMPROVED ROAD | |
| | — FAULT or LOW COAL LINE | | |
| | — 1000' PERIMETER LINE | | |
| | — STATE ROAD | | |
| | — TOWNSHIP ROAD | | |
| | | | |

NOTES:

1. SURFACE PROPERTY LINES ARE SUPPLEMENTED BY COUNTY TAX ASSESSMENT MAPS AND ARE NOT BASED ON ACTUAL SURVEY.
2. FIRST MINING INDICATES NO PILLAR REMOVAL.
3. ALL ENTRIES TO BE MINED AT A NOMINAL WIDTH OF 20 FEET EXCEPT BELT/TRACK ENTRIES WHICH ARE TO BE MINED AT 22 FOOT NOMINAL WIDTH.
4. ALL MINING WITHIN 50% MINING AREA IS DONE ON CENTER LINE OF PROJECTIONS.
5. ANY PILLAR THAT FALLS WITHIN OR PARTIALLY WITHIN A 50% AREA SHALL BE LEFT TOTALLY INTACT.

1MAPS# 10094