

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

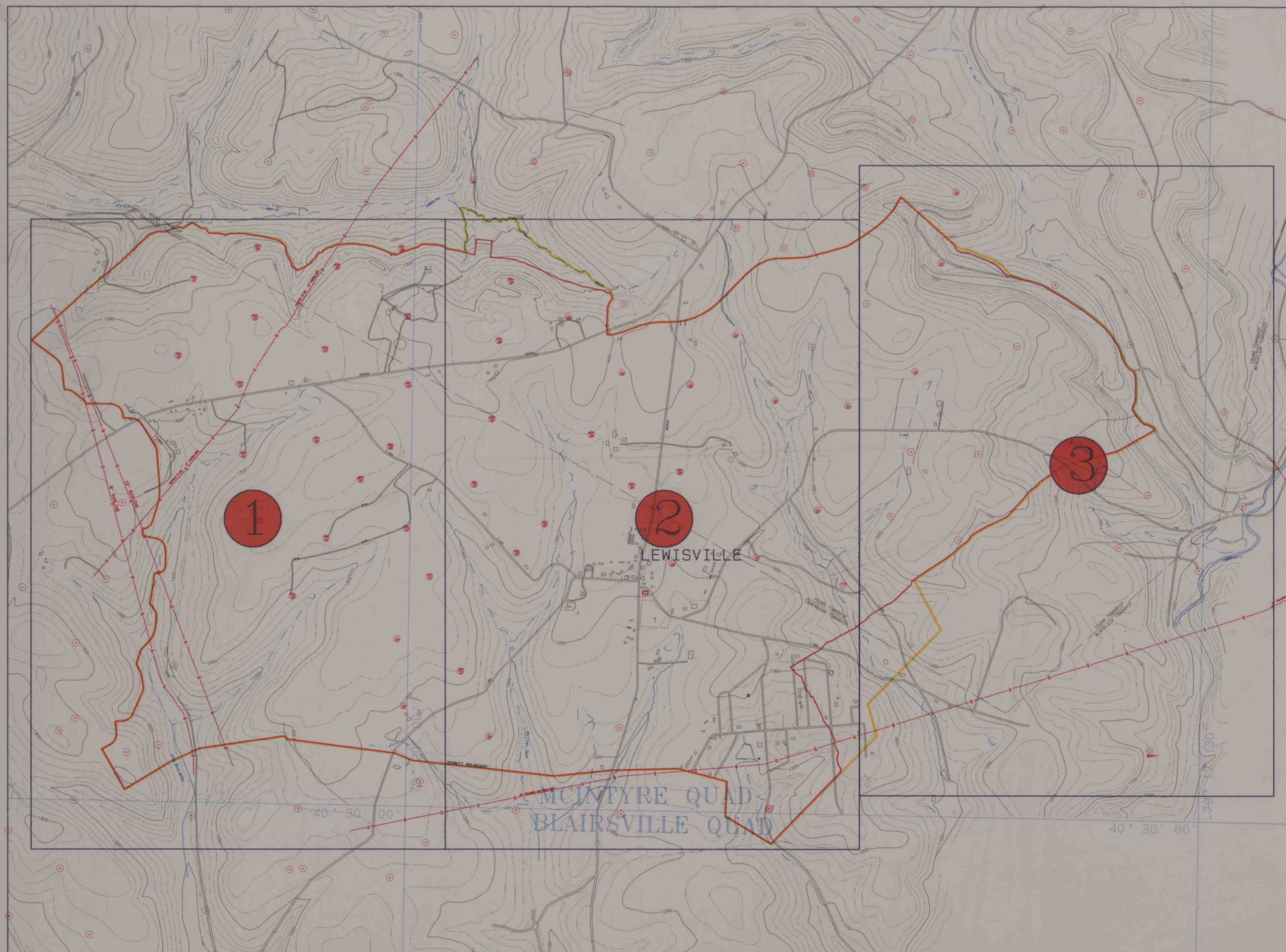


SEAL —

SIGNATURE *David A. Coblough*

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

PREPARED BY MICHAEL P. KEITH



SCALE 1" = 1000'

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

LEGEND

- | | | |
|--|--|---------------------|
| ○ GAS WELL | — PERMIT BOUNDARY | — BRIDGE |
| ● WATER WELL | — SUBSIDENCE CONTROL PLAN BOUNDARY | — CULVERT |
| ☼ SPRING | — 6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE) | — RAILROAD |
| ○ POND/IMPONDMENT | — NO MINING ZONE | — SWAMP/MARSH |
| — FLOW MEASUREMENT PT. | — DEPTH OF COVER LINE | — DITCH - OR DRAINS |
| — PERENNIAL STREAM | — PRIOR DEEP AND SURFACE MINING | |
| — INTERMITTENT STREAM | — PROTECTED AREA - SUBSIDENCE (25° ANGLE OF DRAW) | |
| — PIPELINE/U-GROUND CABLE size, oil or gas labeled | ● BOREHOLE (MINE OPENINGS) | — CHURCH |
| — PROPERTY LINE | — DRILL HOLE | — CEMETERY |
| — POWER LINE (500 KVA or larger) | — STRUCTURE | — PILLARED |
| — COAL CONTOUR LINE | — PROTECTED STRUCTURE | |
| — CROPLINE | — BACKGROUND GROUNDWATER SAMPLE PT. | |
| — FAULT or LOW COAL LINE | — EXISTING GROUNDWATER MONITORING PT. | |
| — 1000' PERIMETER LINE | — BACKGROUND SURFACE SAMPLE PT. | |
| — STATE ROAD | — SURFACE WATER MONITORING PT. (existing & proposed) | |
| — TOWNSHIP ROAD | | |
| — UNIMPROVED ROAD | | |
- [NUMBER] COAL OWNER - KEYED TO MODULE 5
name SURFACE OWNER

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.

IMAPS#
10090