

HELVETIA COAL COMPANY
MARSHALL RUN MINE
PERMIT NO. 32921302
UPPER KITTANNING SEAM
CONEMAUGH AND YOUNG TOWNSHIPS
INDIANA COUNTY, PENNSYLVANIA
POSTING DATE 9-1-96 TO 3-1-97

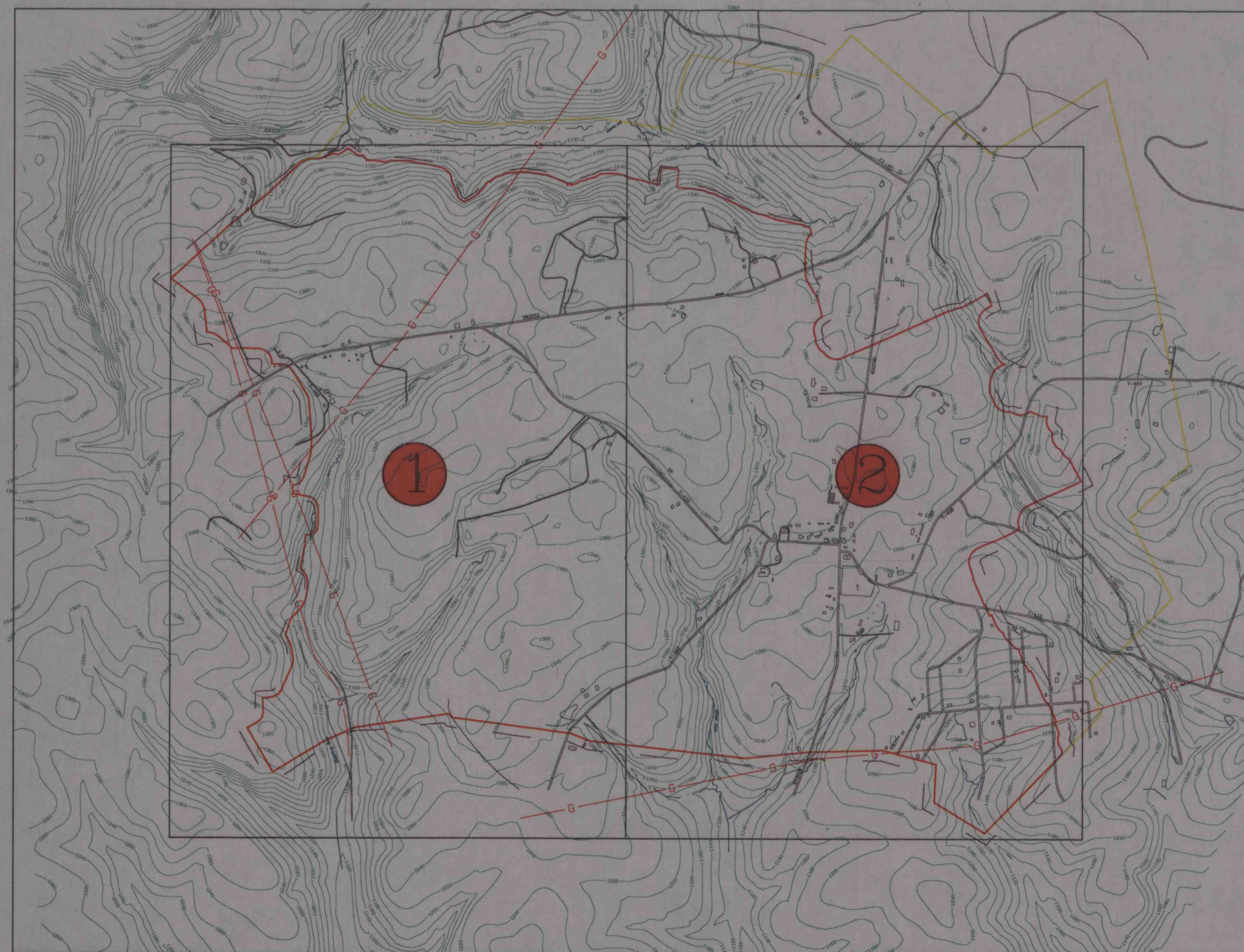
SEAL —



MAPS DEPICT CONTEMPLATED MINING
FROM 9-1-1996
TO 3-1-1997

SIGNATURE *David A. Coblough*

PREPARED BY MICHAEL P. KEITH



SCALE 1" = 1000'

IMAPS#
10102

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

LEGEND

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