
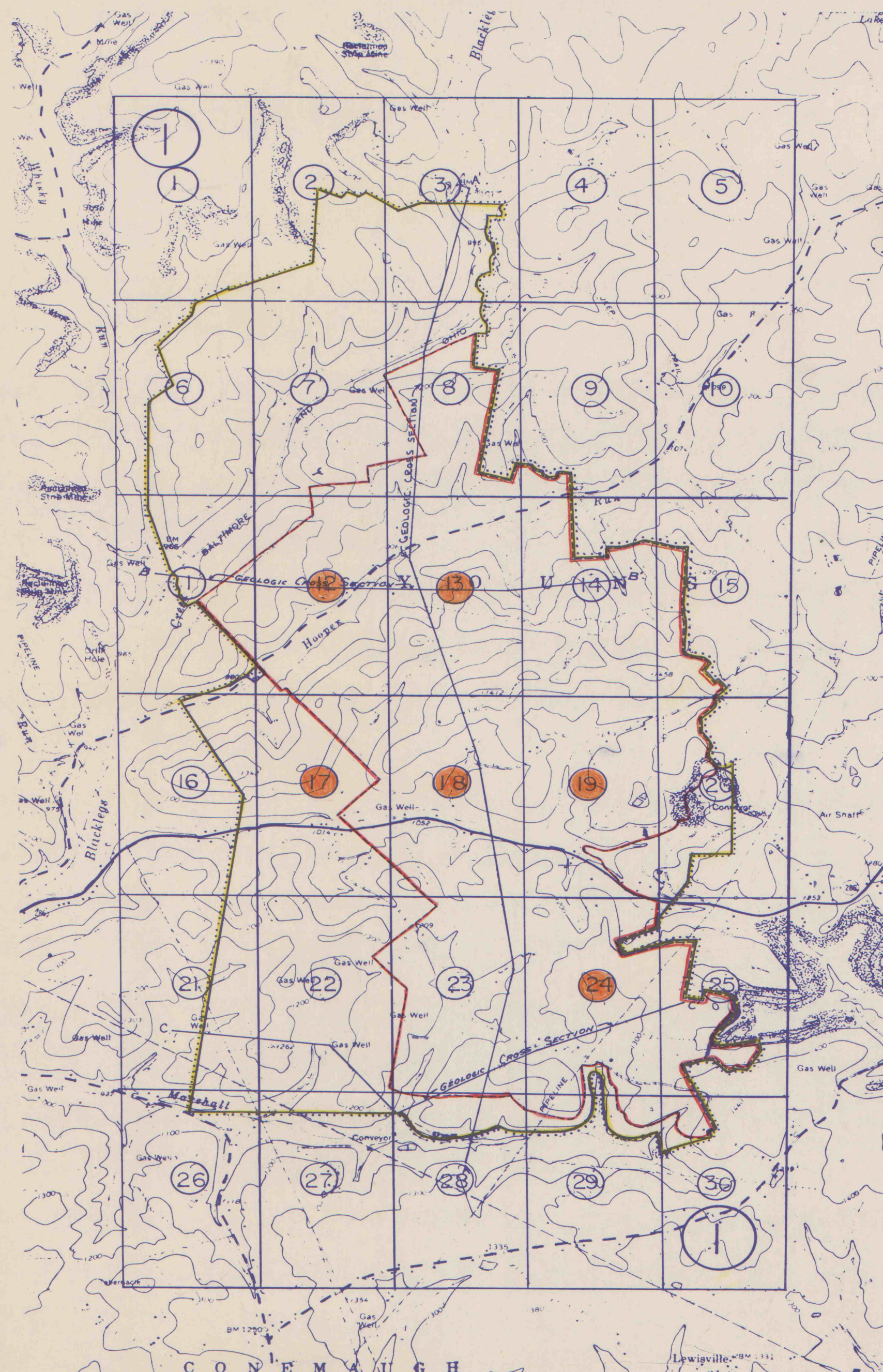


SUBSIDENCE PERMIT
BOUNDARY
INDEX FOR 1" = 100' MAPS

McINTYRE
USGS QUADANGLE

 = MAPS SUBMITTED
SCALE 1" = 2000'



MAIN
OFFICE
COPY

HELVETIA COAL COMPANY

LUCERNE NO. 8 MINE

PERMIT NO. 32841320

UPPER FREEPORT (E SEAM)

YOUNG TOWNSHIP

INDIANA COUNTY, PENNA.

MSHA-ID 36-04597

POSTING DATE 7-1 1989

SEAL —



SIGNATURE





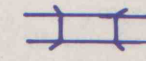
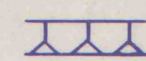

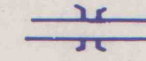
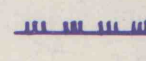

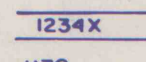

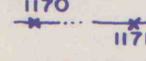

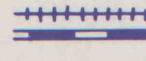









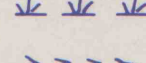

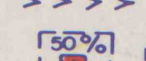



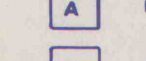

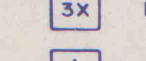

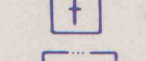



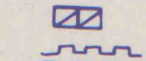

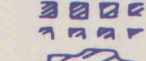



PREPARED BY R. W. HITCHINGS

MAPS DEPICT CONTEMPLATED MINING

FROM 7-1, 1989

TO 1-1, 1990

LEGEND FOR MAP SYMBOLS

| | | | | | |
|---|--|---|--|---|---|
|  | ACTIVE GAS WELL |  | TOWNSHIP ROAD |  | MINING COMPLETED |
|  | INACTIVE GAS WELL |  | BRIDGE |  | CONSTRUCTED DIKE OR EMBANKMENT |
|  | WATER WELL |  | CULVERT |  | TOE OF EXISTING SPOIL, MINE ROCK OR COAL REFUSE PILE |
|  | SPRING |  | ELEVATIONS-ROAD | (NAME) | ORIGINAL COAL OWNER, SHOWN FOR REFERENCE ONLY |
|  | POND |  | ELEVATIONS-STREAM | (NOTE) | ALL COAL OWNED BY R&P COAL CO., UNLESS NOTED ON THE MAPS, & LEASED TO HELVETIA COAL CO. |
|  | FLOW MEASUREMENT POINT |  | RAILROAD TRACKS |  | MINER EXAMINER'S POINT |
|  | STREAM-PERENNIAL |  | HORIZONTAL OR VERTICAL CONTROL, SURVEY STATIONS | NOTE: | MAXIMUM ENTRY & CROSSCUT WIDTH SHALL BE 20' |
|  | STREAM-INTERMITTENT |  | DIAMOND (DDH) OR AIR DRILL (ADH) HOLE AS LABELED | NOTE: | MAXIMUM WIDTH IN BELT-TRACK ENTRIES SHALL BE 22' |
|  | PIPELINE OR UNDERGROUND CABLE (SIZE, OIL, OR GAS AS LABELED) |  | SWAMP OR MARSH |  | CALCULATED SUPPORT AREA |
|  | PROPERTY LINE |  | DITCH | NOTE: | ANY PILLAR WITHIN OR PARTIALLY WITHIN 50% SUPPORT AREA SHALL BE LEFT TOTALLY INTACT. |
|  | POWER LINE |  | PROTECTED STRUCTURE | | |
|  | COAL CONTOUR LINE |  | NONPROTECTED STRUCTURE | | |
|  | NO COAL ZONE |  | DWELLING-BUILT AFTER APRIL 1966 | | |
|  | CROPLINE |  | CHURCH | | |
|  | 100' COVER LINE |  | CEMETARY | | |
|  | 6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE) |  | AIR SHAFT (DOUBLE COMPARTMENT) | | |
|  | BOUNDARY OF OPERATION |  | PILLARED | | |
|  | MINE SUBSIDENCE PERMIT |  | OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM | | |
|  | DON'T OWN | | | | |
|  | STATE ROAD | | | | |
|  | UNIMPROVED ROAD | | | | |

NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL