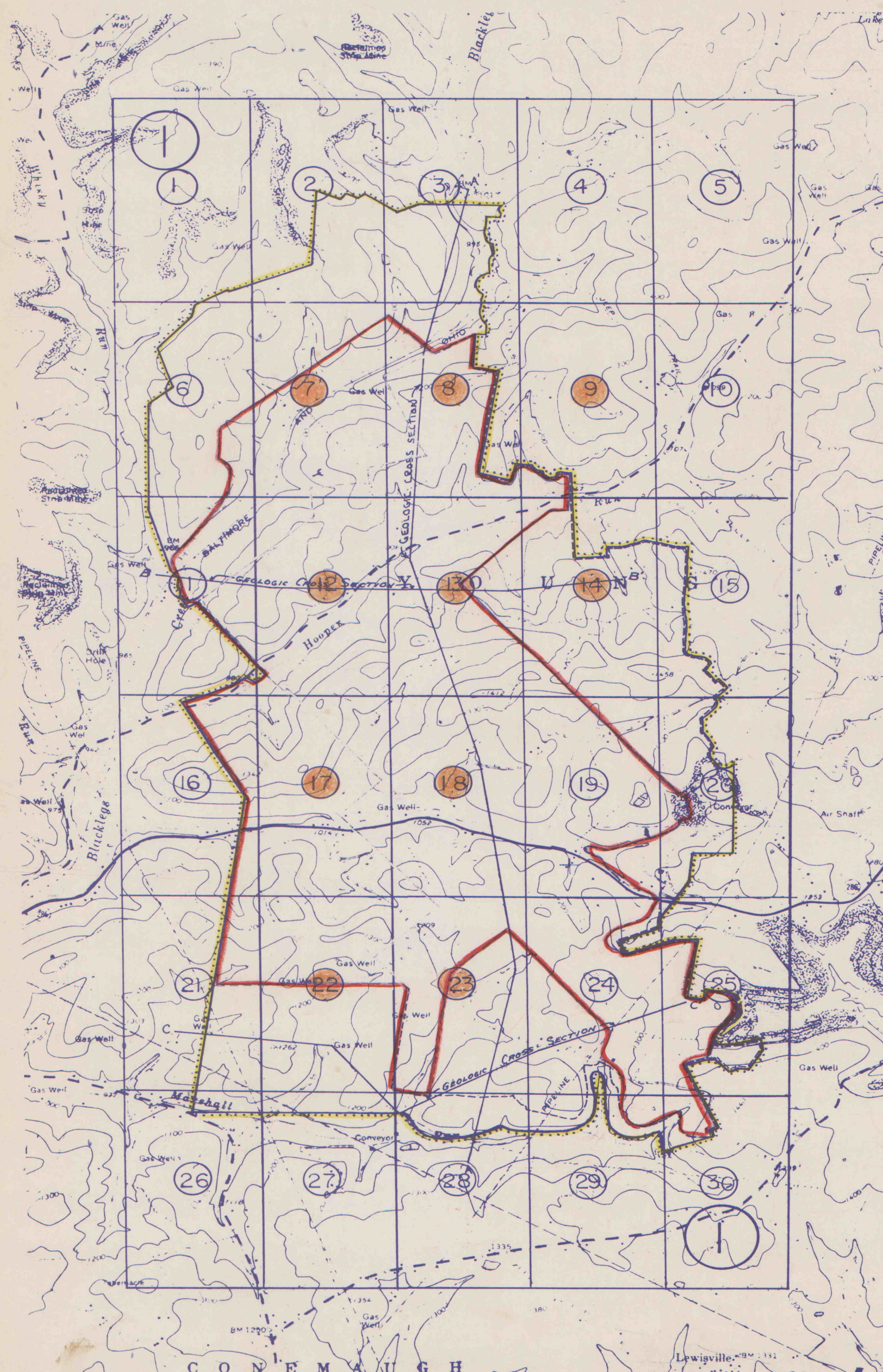


# SUBSIDENCE PERMIT BOUNDARY INDEX FOR 1" = 100' MAPS

McINTYRE  
U S G S QUADANGLE

● = MAPS SUBMITTED

SCALE 1" = 2000'



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 7-1-92

SEAL —



SIGNATURE

*David E. Yingling*

PREPARED BY ROBERT W. HITCHINGS

MAPS DEPICT CONTEMPLATED MINING

FROM 7-1, 1992

TO 1-1, 1993

## LEGEND FOR MAP SYMBOLS

(A) ACTIVE GAS WELL	T646 TOWNSHIP ROAD	MINING COMPLETED
(I) INACTIVE GAS WELL	BRIDGE	CONSTRUCTED DIKE OR EMBANKMENT
WATER WELL	CULVERT	TOE OF EXISTING SPOIL, MINE ROCK OR COAL REFUSE PILE
SUN 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	MINE EXAMINERS POINT
STREAM-PERENNIAL	HORIZONTAL OR VERTICAL CONTROL, SURVEY STATIONS	NOTE: UNLESS OTHERWISE INDICATED ON THE MAPS, NOMINAL ENTRY AND CROSSCUT WIDTHS WILL BE 20' AND NOMINAL BELT-TRACK ENTRY WIDTHS WILL BE 22'.
STREAM-INTERMITTENT	DIAMOND (DDH) OR AIR DRILL (ADH) HOLE AS LABELED	CALCULATED SUPPORT AREA
PIPELINE OR UNDERGROUND CABLE (SIZE, OIL, OR GAS AS LABELED)	SWAMP OR MARSH	NOTE: ANY PILLAR WITHIN OR PARTIALLY WITHIN 50% SUPPORT AREA SHALL BE LEFT TOTALLY INTACT.
PROPERTY LINE	DITCH	BLUE SHADED AREAS ARE THE PILLARS TO BE LEFT IN PLACE TO REPRESENT 50% MINING.
POWER LINE	PROTECTED STRUCTURE	
1050 COAL CONTOUR LINE	NONPROTECTED STRUCTURE	
NO COAL ZONE	DWELLING-BUILT AFTER APRIL 1966	
100' COVER CROPLINE	CHURCH	
100' COVER 100' COVER LINE	CEMETARY	
6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE)	AIR SHAFT (DOUBLE COMPARTMENT)	
BOUNDARY OF OPERATION	PILLARED	
MINE SUBSIDENCE PERMIT DONT OWN	OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM	
LR 32014 STATE ROAD		
UNIMPROVED ROAD		

NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL