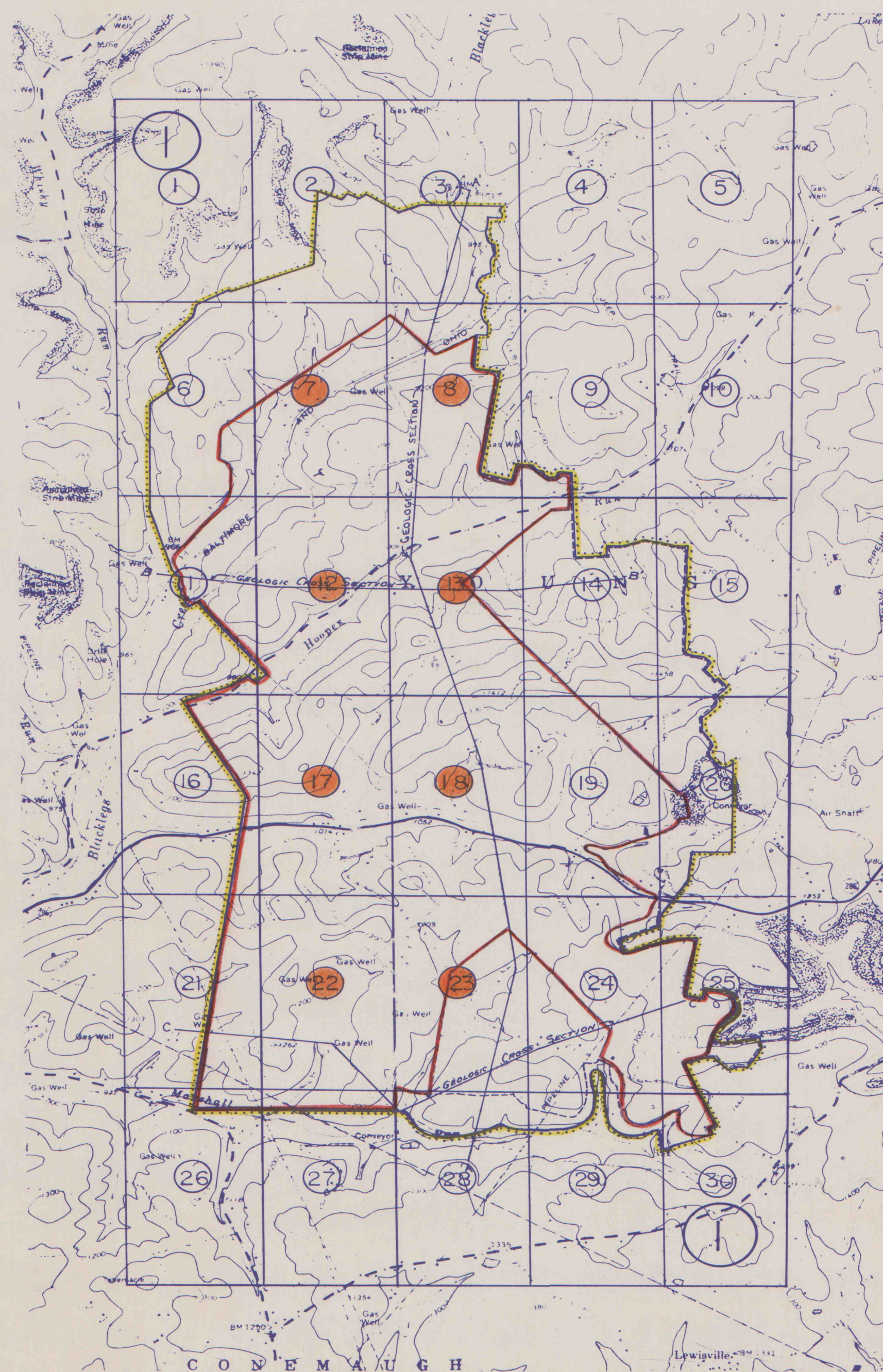


SUBSIDENCE PERMIT
BOUNDARY
INDEX FOR 1" = 100' MAPS

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 7-1-94



SEAL

David E. Yingling

SIGNATURE

PREPARED BY MICHAEL P. KEITH

MAPS DEPICT CONTEMPLATED MINING

FROM 7-1, 1994

TO 1-1, 1995

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
☼ 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	
--- POWER LINE	PROTECTED STRUCTURE	
--- COAL CONTOUR LINE (CONTEMPLATED MINING & DATE)	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	
--- DONT OWN		
LR 32014 STATE ROAD		
--- UNIMPROVED ROAD		

NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL