
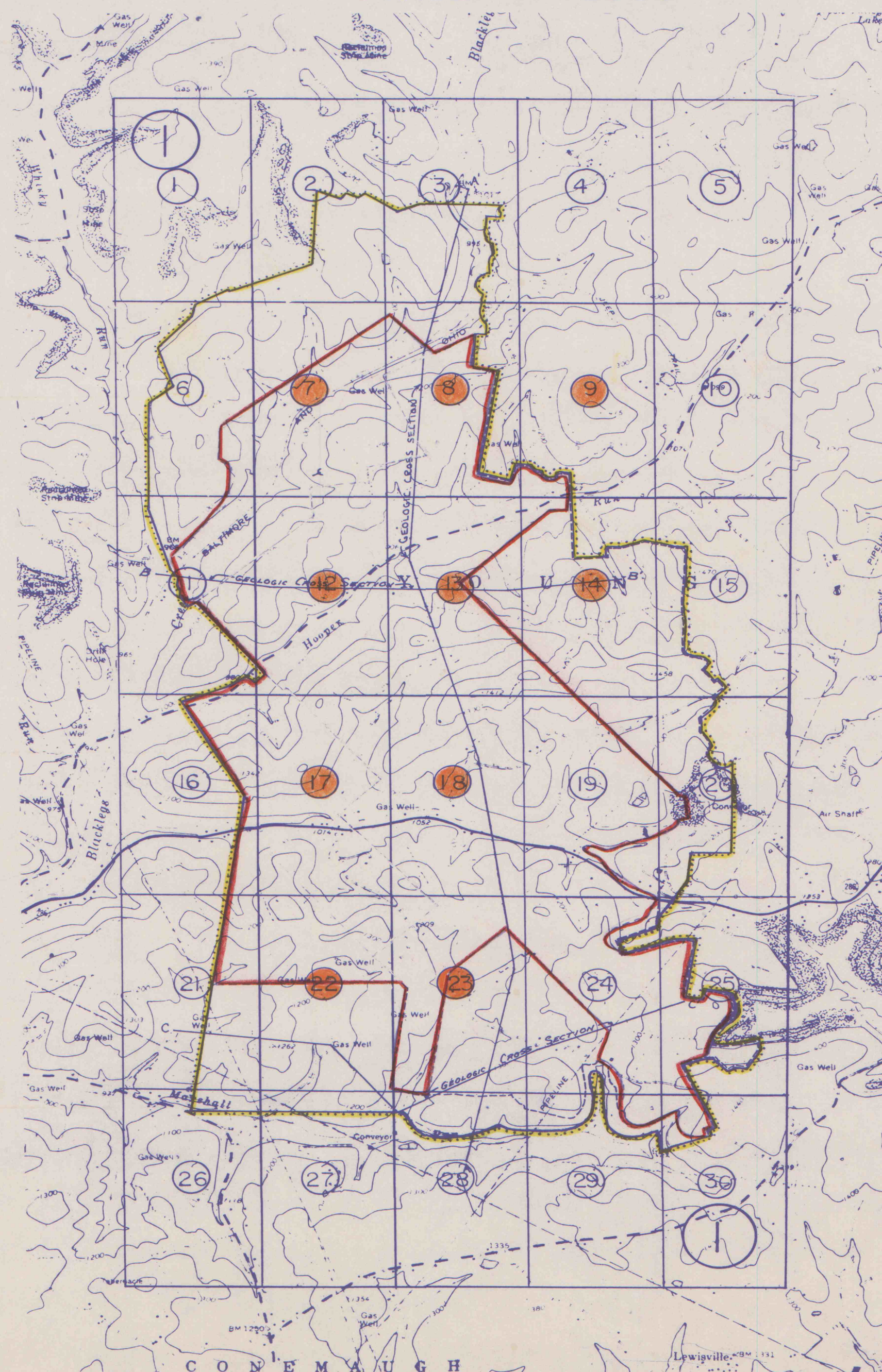


SUBSIDENCE PERMIT BOUNDARY INDEX FOR 1" = 100' MAPS

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 1-1-93

SEAL —



SIGNATURE

David E. Yingling


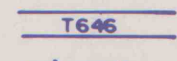



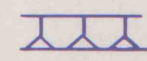

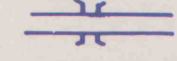
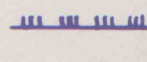

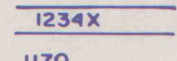

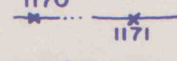








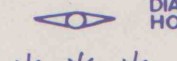

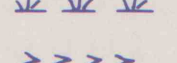

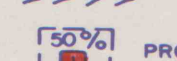



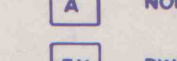

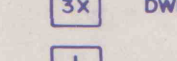

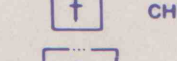

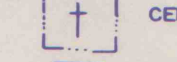



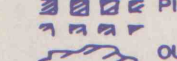



PREPARED BY W. J. ROBINSON

MAPS DEPICT CONTEMPLATED MINING

FROM 1-1, 1993

TO 7-1, 1993

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		MINES EXAMINER'S POINT
	STREAM-PERENNIAL		HORIZONTAL OR VERTICAL CONTROL, SURVEY STATIONS		
	STREAM-INTERMITTENT		DIAMOND (DDH) OR AIR DRILL (ADH) HOLE AS LABELED		
	PIPELINE OR UNDERGROUND CABLE (SIZE, OIL, OR GAS AS LABELED)		SWAMP OR MARSH		
	PROPERTY LINE		DITCH		
	POWER LINE		PROTECTED STRUCTURE		
	COAL CONTOUR LINE		NONPROTECTED STRUCTURE		
	NO COAL ZONE		DWELLING-BUILT AFTER APRIL 1966		
	CROPLINE		CHURCH		
	100' COVER LINE		CEMETERY		
	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