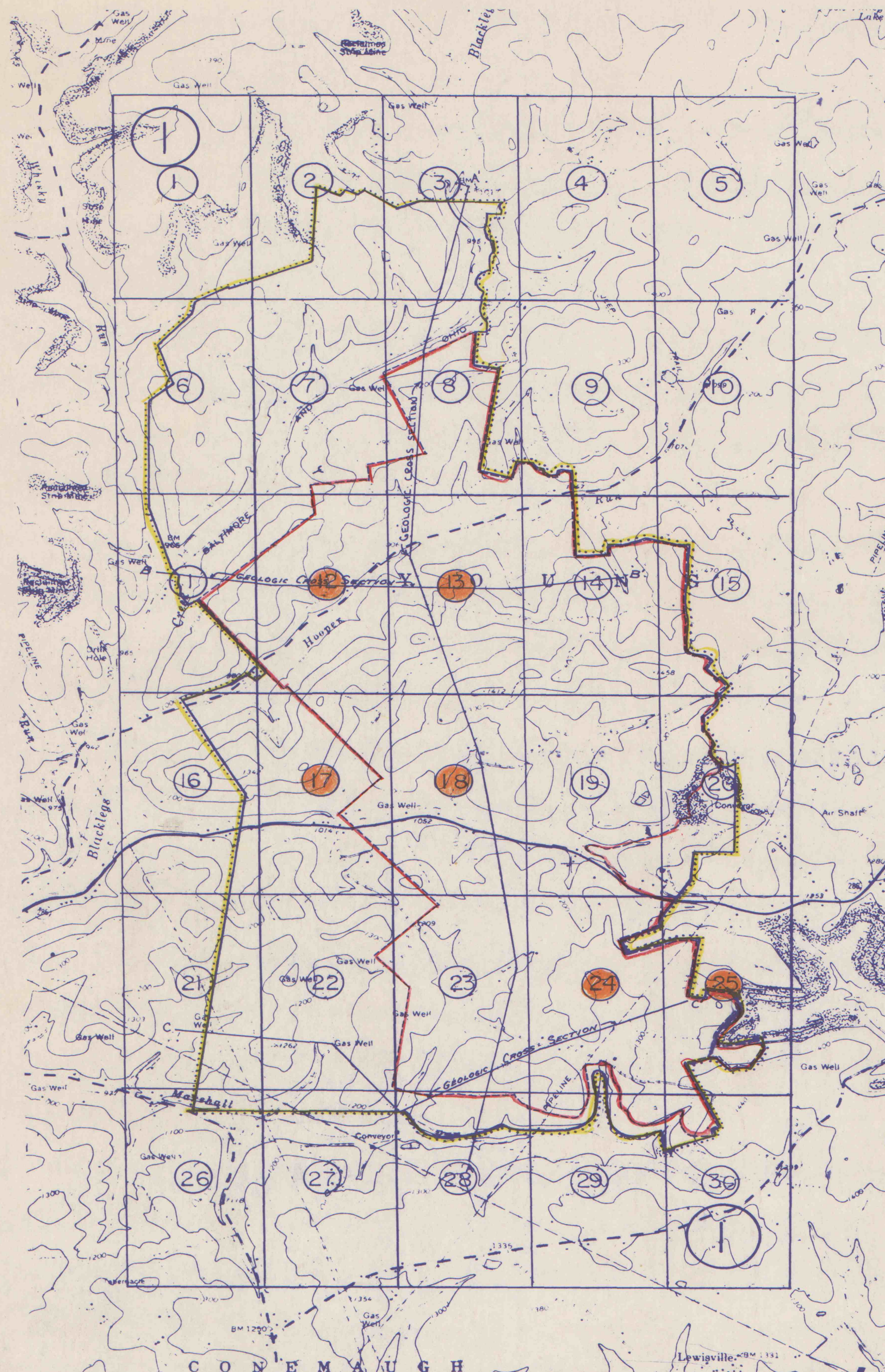


SUBSIDENCE PERMIT BOUNDARY INDEX FOR 1" = 100' MAPS

McINTYRE
USGS QUADANGLE

 = MAPS SUBMITTED
SCALE 1" = 2000'



HELVETIA COAL COMPANY

LUCERNE NO. 8 MINE

PERMIT NO. 32841320

UPPER FREEPORT (E SEAM)

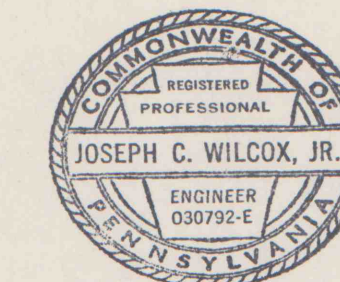
YOUNG TOWNSHIP

INDIANA COUNTY, PENNA.

MSHA-ID 36-04597

POSTING DATE JAN. 1, 1990

SEAL —



SIGNATURE



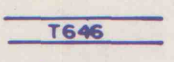
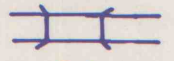
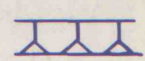
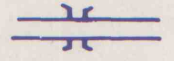
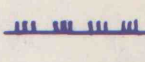
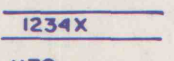
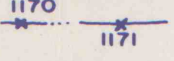
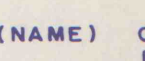
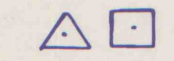
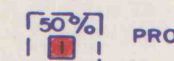
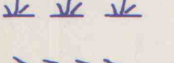
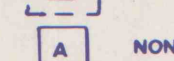
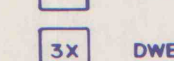
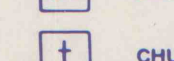
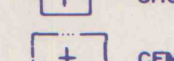
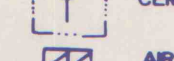
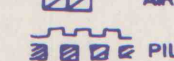
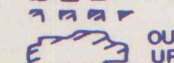
PREPARED BY HARRY L. BRESKI

MAPS DEPICT CONTEMPLATED MINING

FROM 1-1, 1990

TO 7-1, 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, IS LEASED TO HELVETIA COAL CO.
	FLOW MEASUREMENT POINT		RAILROAD TRACKS		MINING EXAMINERS POINT
	STREAM-PERENNIAL		HORIZONTAL OR VERTICAL CONTROL, SURVEY STATIONS	(NOTE)	MAXIMUM ENTRY & CROSSCUT WIDTH SHALL BE 20'
	STREAM-INTERMITTENT		DIAMOND (DCH) 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		PROTECTED STRUCTURE
	PROPERTY LINE		DITCH		NONPROTECTED STRUCTURE
	POWER LINE		CHURCH		DWELLING-BUILT AFTER APRIL 1966
	1050 COAL CONTOUR LINE		CEMETARY		AIR SHAFT (DOUBLE COMPARTMENT)
	NO COAL ZONE		PILLARED		OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM
	CROPLINE				
	100' COVER LINE				
	6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE)				
	BOUNDARY OF OPERATION				
	MINE SUBSIDENCE PERMIT DONT OWN				
	STATE ROAD				
	UNIMPROVED ROAD				

NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL