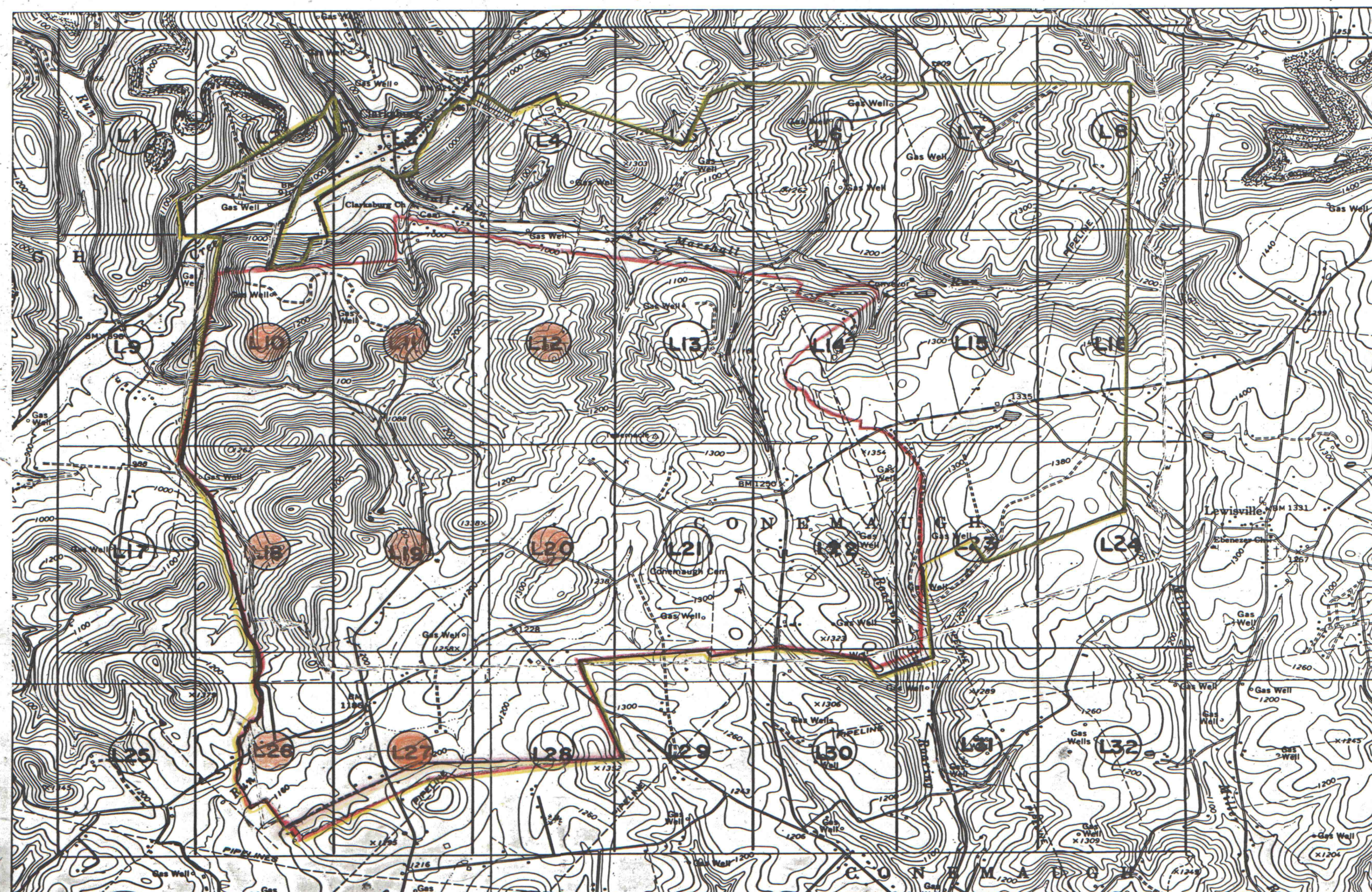


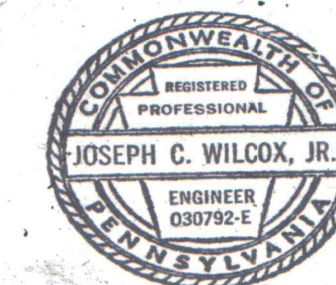
SUBSIDENCE PERMIT
BOUNDARY
INDEX FOR 1" = 100' MAPS
AVONMORE, BLAIRSVILLE, SALTSBURG & MCINTYRE
USGS QUADANGLES

● = MAPS SUBMITTED
SCALE 1" = 2000'



HELVETIA COAL COMPANY
LUCERNE NO.9 MINE
PERMIT NO. 32841317
LOWER FREEPORT (D-SEAM)
CONEMAUGH TOWNSHIP
INDIANA COUNTY, PENNA.
MSHA I.D. 36-05374
POSTING DATE JUNE 1, 1990

SEAL —



SIGNATURE

PREPARED BY Harry L. Breski

MAPS DEPICT CONTEMPLATED MINING
FROM JUNE 1, 1990
TO DEC. 1, 1990

LEGEND FOR MAP SYMBOLS

⊙	ACTIVE GAS WELL	T646	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	1234X	ELEVATIONS-ROAD	(NAME)	ORIGINAL COAL OWNER, SHOWN FOR REFERENCE ONLY
☾	POND	1170	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		MINING EXAMINERS POINT
	STREAM-PERENNIAL		HORIZONTAL OR VERTICAL CONTROL, SURVEY STATIONS	NOTE:	MAXIMUM ENTRY & CROSSCUT WIDTH SHALL BE 20'
	STREAM-INTERMITTENT	BM	USGS TRIANGULATION	NOTE:	MAXIMUM WIDTH IN BELT-TRACK ENTRIES SHALL BE 22'
	PIPELINE OR UNDERGROUND CABLE (SIZE, OIL, OR GAS AS LABELED)		DIAMOND (DDH) OR AIR DRILL (ADH) HOLE AS LABELED		CALCULATED SUPPORT AREA
	PROPERTY LINE		SWAMP OR MARSH	NOTE:	ANY PILLAR WITHIN OR PARTIALLY WITHIN 50% SUPPORT AREA SHALL BE LEFT TOTALLY INTACT.
	POWER LINE		DITCH		BLUE SHADED AREAS ARE THE PILLARS TO BE LEFT IN PLACE TO REPRESENT 50% MINING.
	COAL CONTOUR LINE		PROTECTED STRUCTURE	NOTE:	FIRST MINING INDICATES NO PILLAR REMOVAL
	NO COAL ZONE		NONPROTECTED STRUCTURE		
	CROPLINE		DWELLING-BUILT AFTER APRIL 1966		
	100' COVER LINE		CHURCH		
	6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE)		CEMETARY		
	BOUNDARY OF OPERATION		AIR SHAFT (DOUBLE COMPARTMENT)		
	INE SUBSIDENCE PERMIT		PILLARED		
	DON'T OWN		OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM		
	STATE ROAD				
	UNIMPROVED ROAD				