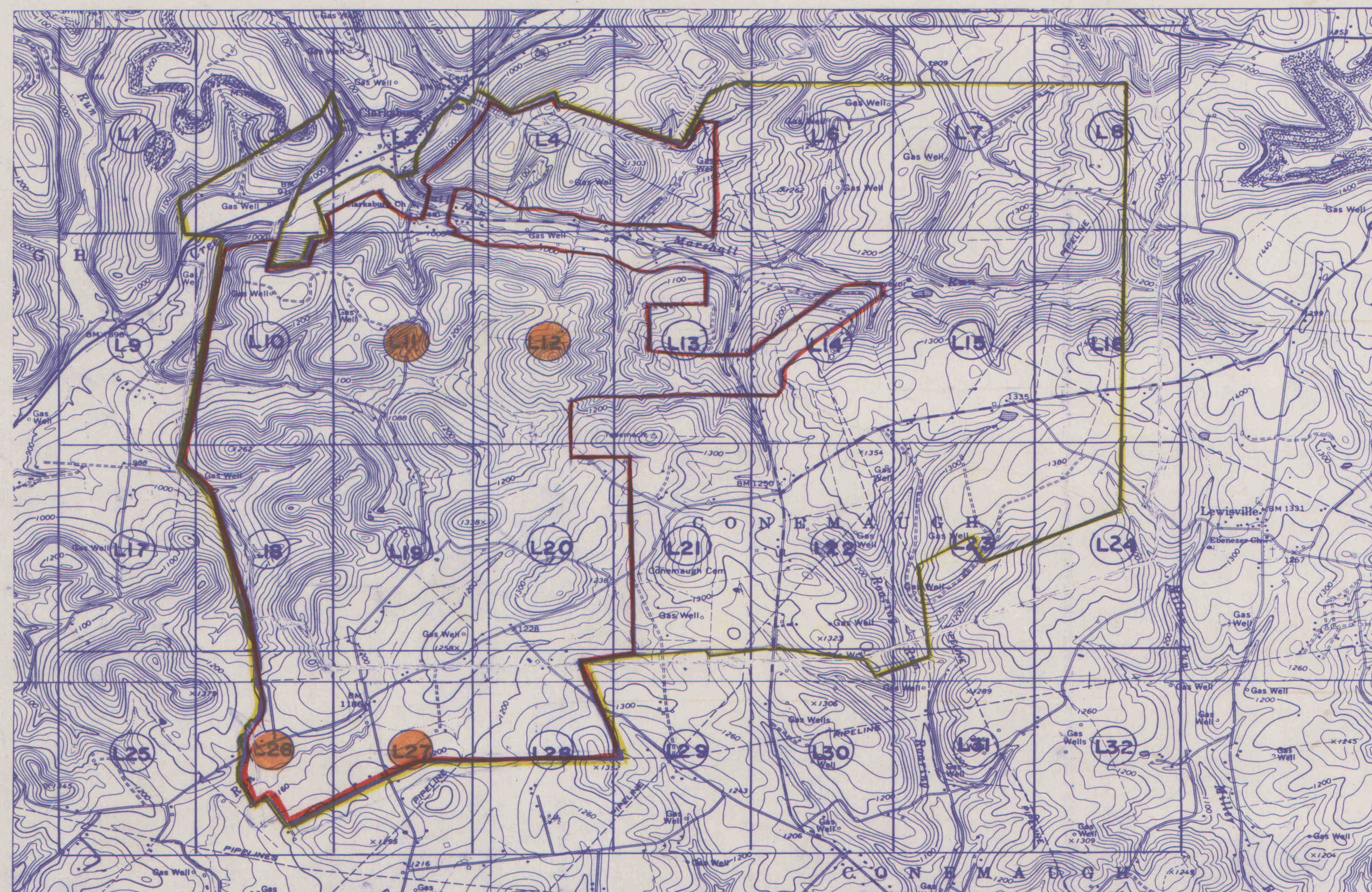


SUBSIDENCE PERMIT
BOUNDARY

INDEX FOR 1" = 100' MAPS

AVONMORE, BLAIRSVILLE, SALTSBURG & MCINTYRE
USGS QUADRANGLES

● = 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 12-1-93

SEAL —



SIGNATURE

David E. Yingling

PREPARED BY MICHAEL P. KEITH

MAPS DEPICT CONTEMPLATED MINING
FROM 12-1, 1993
TO 6-1, 1994

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		MINING 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		BM USGS TRIANGULATION		CALCULATED SUPPORT AREA
	PIPELINE OR UNDERGROUND CABLE (SIZE, OIL, OR GAS AS LABELED)		DIAMOND (DDH) OR AIR DRILL (ADH) HOLE AS LABELED	NOTE: ANY PILLAR WITHIN OR PARTIALLY WITHIN 50% SUPPORT AREA SHALL BE LEFT TOTALLY INTACT.	
	PROPERTY LINE		SWAMP OR MARSH	BLUE SHADED AREAS ARE THE PILLARS TO BE LEFT IN PLACE TO REPRESENT 50% MINING.	
	POWER LINE		DITCH	NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL	
	COAL CONTOUR LINE		PROTECTED STRUCTURE		
	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)		
	MINING SUBSIDENCE PERMIT		PILLARED		
	DON'T OWN		OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM		
	STATE ROAD				
	UNIMPROVED ROAD				