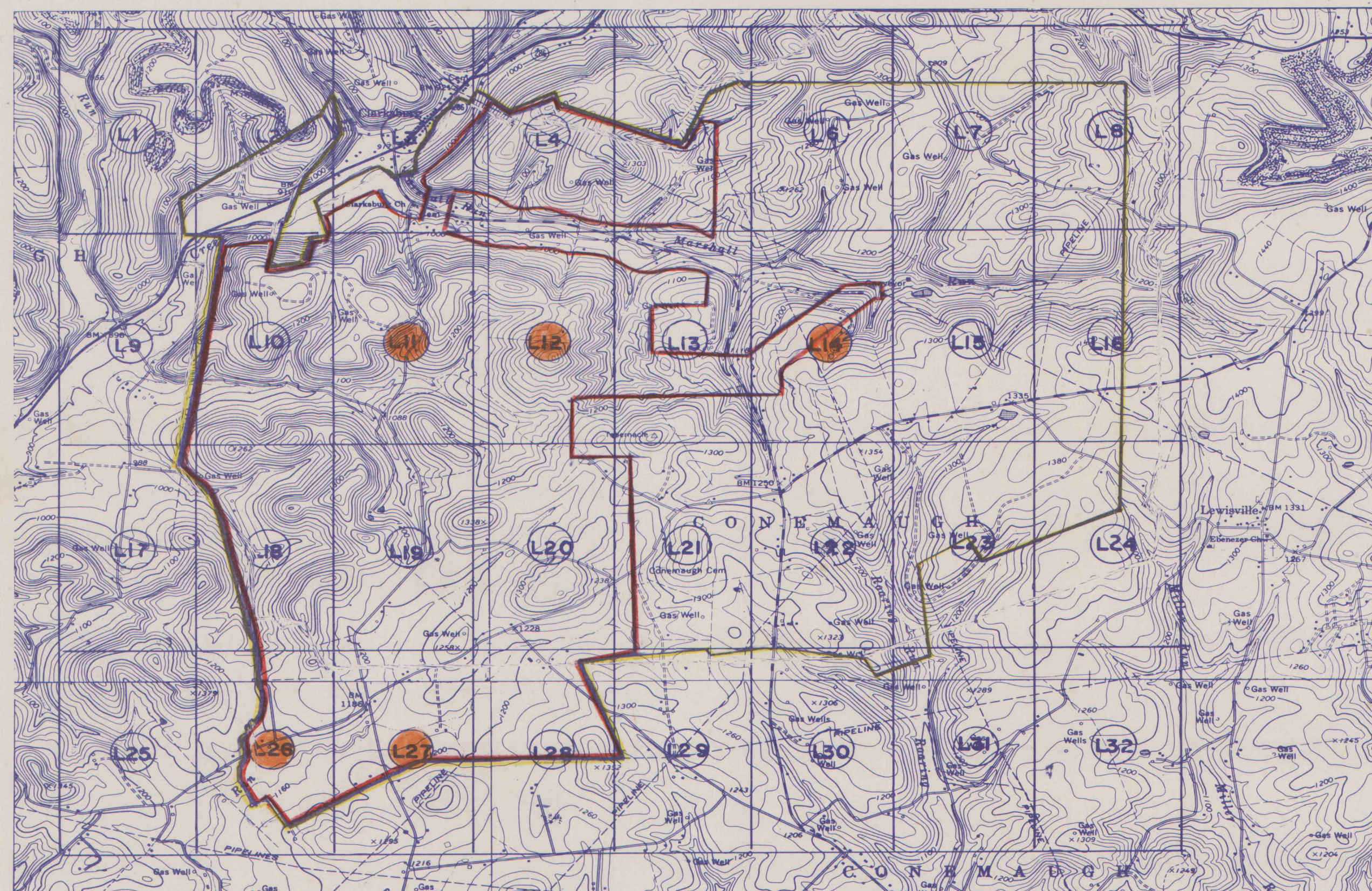


SUBSIDENCE PERMIT
BOUNDARY

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 6-1-93

SEAL —



SIGNATURE

David E. Yingling

PREPARED BY W. J. ROBINSON

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

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	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	
1050 COAL CONTOUR LINE	PROTECTED STRUCTURE	
--- NO COAL ZONE	NONPROTECTED STRUCTURE	
--- CROPLINE	DWELLING-BUILT AFTER APRIL 1966	
100' COVER 100' COVER LINE	CHURCH	
6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE)	CEMETARY	
BOUNDARY OF OPERATION	AIR SHAFT (DOUBLE COMPARTMENT)	
MINE SUBSIDENCE PERMIT	PILLARED	
DON'T OWN	OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM	
STATE ROAD		
UNIMPROVED ROAD		

NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL