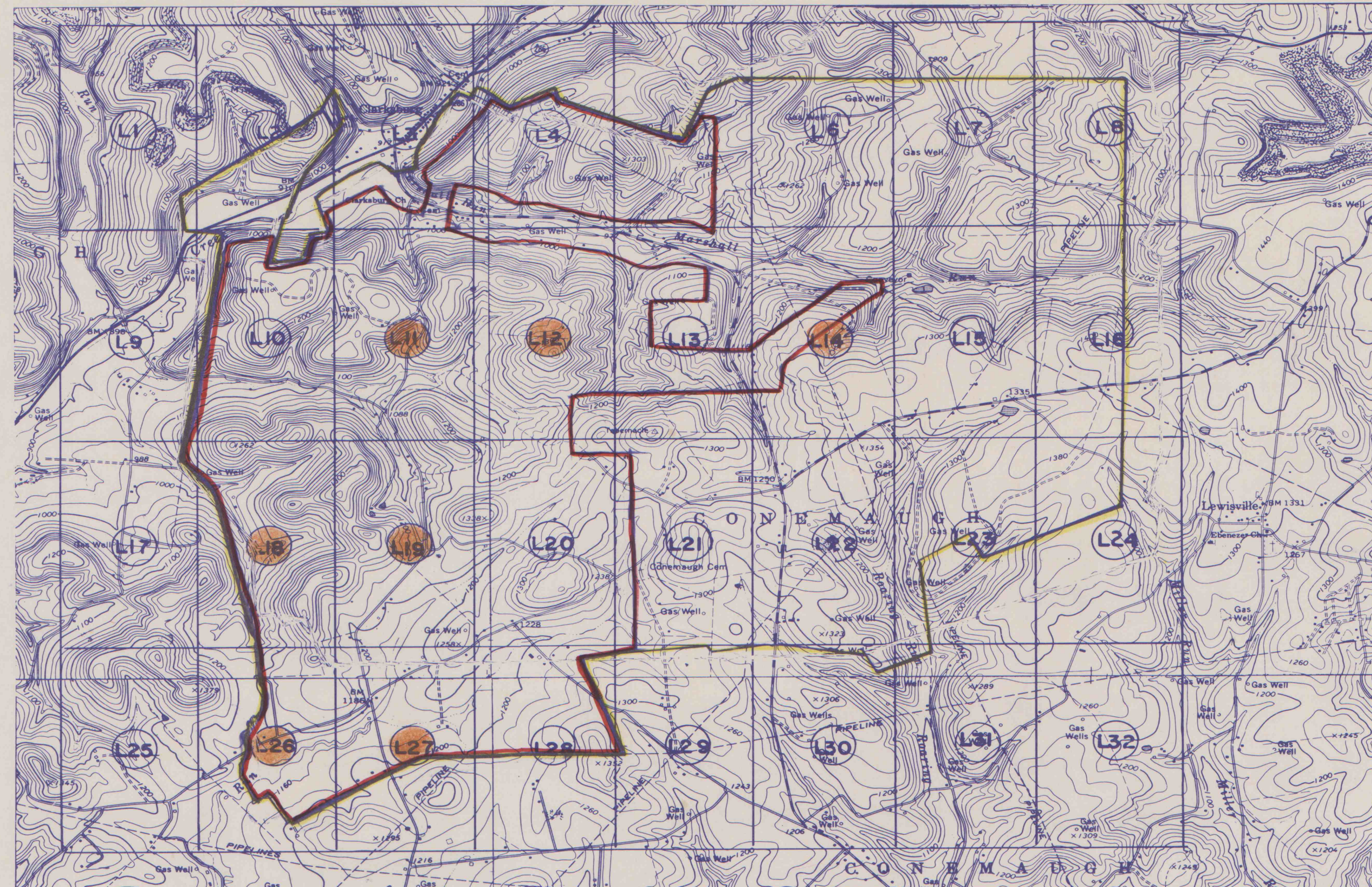


SUBSIDENCE PERMIT
BOUNDARY
INDEX FOR 1" = 100' MAPS
AVONMORE, BLAIRSVILLE, SALTSBURG & MCINTYRE
USGS QUADANGLES

● = MAPS SUBMITTED
SCALE 1" = 2000'



HELVETIA COAL COMPANY

LUCERNE NO. 9 MINE

PERMIT NO. 32841317

LOWER FREEPORT (D-SEAM)

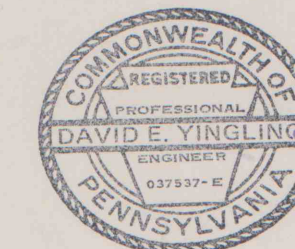
CONEMAUGH TOWNSHIP

INDIANA COUNTY, PENNA.

MSHA I.D. 36-05374

POSTING DATE 6-1-92

SEAL —



SIGNATURE

David E. Yingling

PREPARED BY R. W. HITCHINGS

MAPS DEPICT CONTEMPLATED MINING

FROM 6-1, 1992

TO 12-1, 1992

LEGEND FOR MAP SYMBOLS

Ⓐ ACTIVE GAS WELL ⓐ INACTIVE GAS WELL ● WATER WELL ☀ SPRING ☪ POND ⬮ FLOW MEASUREMENT POINT — STREAM - PERENNIAL --- STREAM - INTERMITTENT --- PIPELINE OR UNDERGROUND CABLE (SIZE, OIL, OR GAS AS LABELED) --- PROPERTY LINE --- POWER LINE --- COAL CONTOUR LINE --- NO COAL ZONE --- CROPLINE --- 100' COVER LINE --- 6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE) --- BOUNDARY OF OPERATION --- MINE SUBSIDENCE PERMIT --- DON'T OWN --- STATE ROAD --- UNIMPROVED ROAD	T646 TOWNSHIP ROAD BRIDGE CULVERT ELEVATIONS - ROAD ELEVATIONS - STREAM RAILROAD TRACKS HORIZONTAL OR VERTICAL CONTROL, SURVEY STATIONS BM USGS TRIANGULATION DIAMOND (DDH) OR AIR DRILL (ADH) HOLE AS LABELED SWAMP OR MARSH DITCH PROTECTED STRUCTURE NONPROTECTED STRUCTURE DWELLING - BUILT AFTER APRIL 1966 CHURCH CEMETARY AIR SHAFT (DOUBLE COMPARTMENT) PILLARED OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM	MINING COMPLETED CONSTRUCTED DIKE OR EMBANKMENT TOE OF EXISTING SPOIL, MINE ROCK OR COAL REFUSE PILE (NAME) ORIGINAL COAL OWNER, SHOWN FOR REFERENCE ONLY (NOTE) ALL COAL OWNED BY R&P COAL CO., UNLESS NOTED ON THE MAPS, & LEASED TO HELVETIA COAL CO. MINE EXAMINERS POINT (NOTE) UNLESS OTHERWISE INDICATED ON THE MAPS, NOMINAL ENTRY AND CROSSCUT WIDTHS WILL BE 20' AND NOMINAL BELT-TRACK ENTRY WIDTHS WILL BE 22'. CALCULATED SUPPORT AREA (NOTE) ANY PILLAR WITHIN OR PARTIALLY WITHIN 50% SUPPORT AREA SHALL BE LEFT TOTALLY INTACT. BLUE SHADED AREAS ARE THE PILLARS TO BE LEFT IN PLACE TO REPRESENT 50% MINING.
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NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL