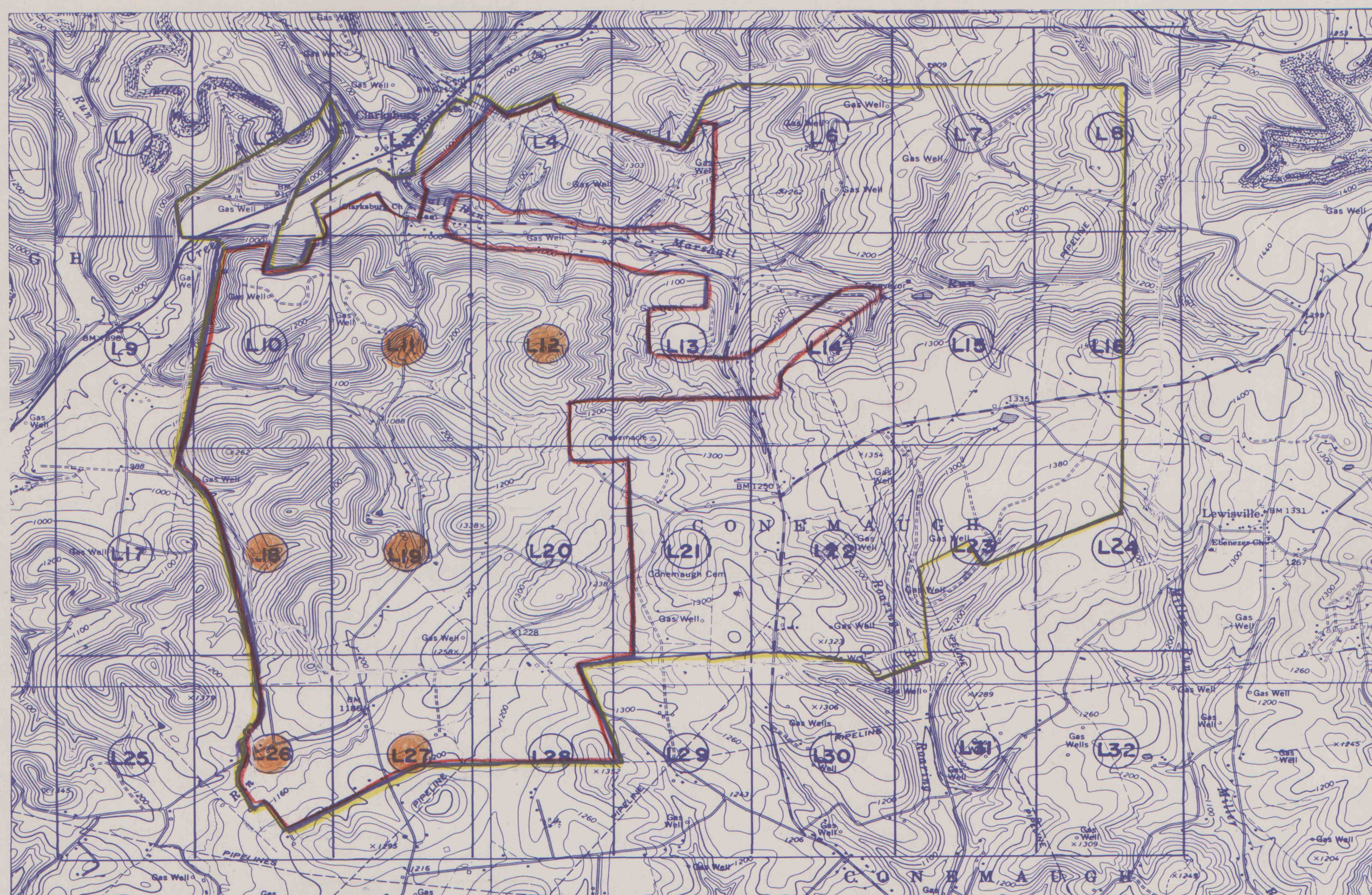


SUBSIDENCE PERMIT
BOUNDARY
INDEX FOR 1" = 100' MAPS
AVONMORE, BLAIRSVILLE, SALTSBURG & MCINTYRE
USGS QUADANGLES

● = 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 12-1-91

SEAL —



SIGNATURE

David E. Yingling

PREPARED BY R W HITCHINGS

MAPS DEPICT CONTEMPLATED MINING
FROM 12-1, 19 91
TO 6-1, 19 92

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 100' COVER LINE 6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE) BOUNDARY OF OPERATION MINE SUBSIDENCE PERMIT DON'T OWN LR 32014 STATE ROAD --- UNIMPROVED ROAD	T646 TOWNSHIP ROAD BRIDGE CULVERT 1234X ELEVATIONS - ROAD 1170 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 3X 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, IS LEASED TO HELVETIA COAL CO. MINE EXAMINERS POINT NOTE: MAXIMUM ENTRY & CROSSCUT WIDTH SHALL BE 20' NOTE: MAXIMUM WIDTH IN BELT-TRACK ENTRIES SHALL 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.
--	--	--

NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL