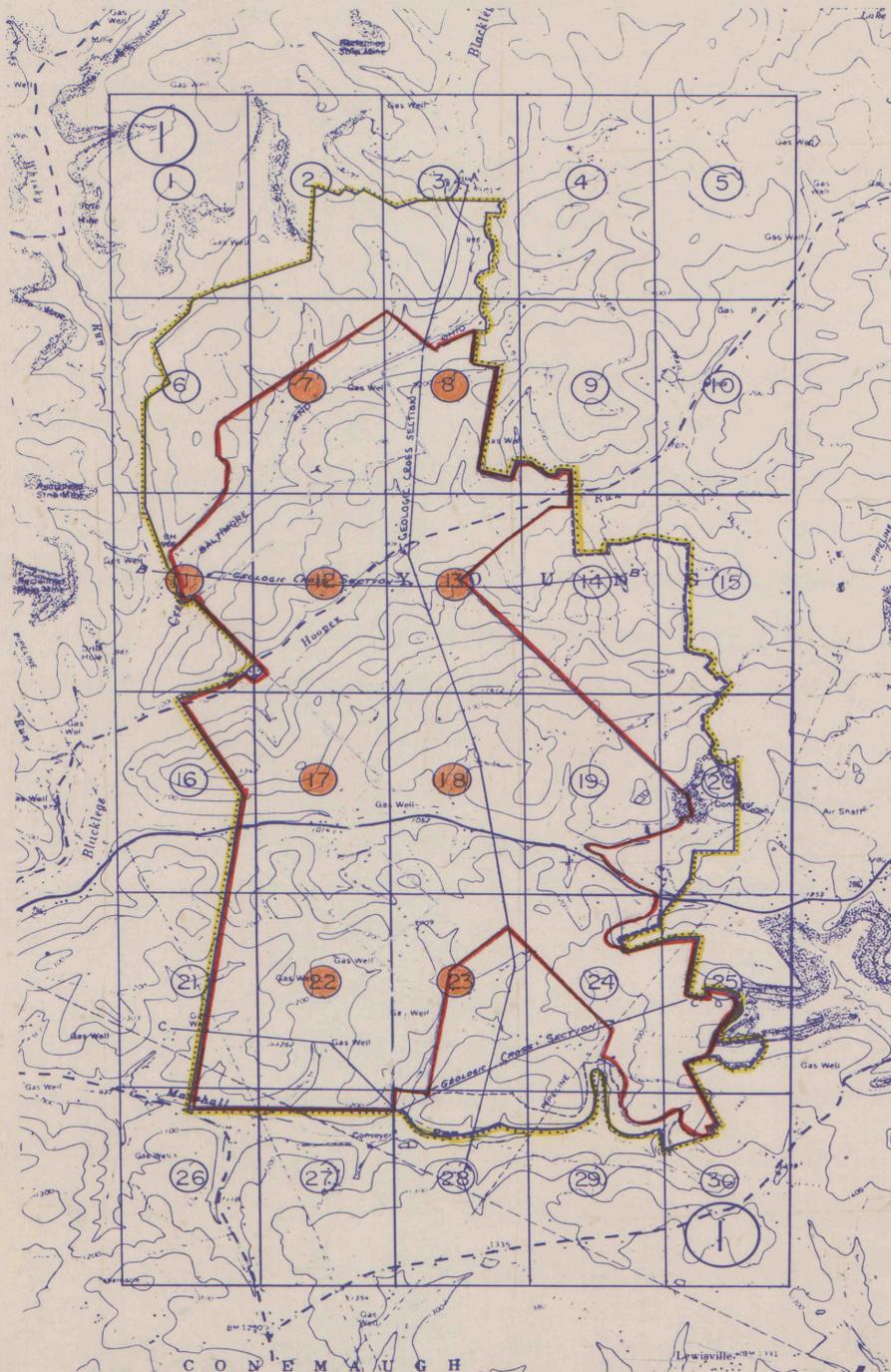


SUBSIDENCE PERMIT  
BOUNDARY  
INDEX FOR 1" = 100' MAPS

McINTYRE  
U S G S QUADANGLE

● = MAPS SUBMITTED  
SCALE 1" = 2000'



HELVETIA COAL COMPANY

LUCERNE NO. 8 MINE

PERMIT NO. 32841320

UPPER FREEPORT (E SEAM)

YOUNG TOWNSHIP

INDIANA COUNTY, PENNA.

MSHA-ID 36-04597

POSTING DATE 1-1-94

SEAL —



SIGNATURE

*David E. Yingling*

PREPARED BY MICHAEL P. KEITH

MAPS DEPICT CONTEMPLATED MINING

FROM 1-1, 1994

TO 7-1, 1994

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
SUN SPRING	1234X ELEVATIONS-ROAD	(NAME) ORIGINAL COAL OWNER, SHOWN FOR REFERENCE ONLY
POND	1170 1171 ELEVATIONS-STREAM	(NOTE) ALL COAL OWNED BY R&P COAL CO., UNLESS NOTED ON THE MAPS, IS LEASED TO HELVETIA COAL CO.
WAVE FLOW MEASUREMENT POINT	RAILROAD TRACKS	MINE EXAMINERS POINT
WAVE 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.
WAVE STREAM-INTERMITTENT	DIAMOND (DDH) OR AIR DRILL (ADH) HOLE AS LABELED	CALCULATED SUPPORT AREA
--- PIPELINE OR UNDERGROUND CABLE (SIZE, OIL, OR GAS AS LABELED)	SWAMP OR MARSH	(NOTE) ANY PILLAR WITHIN OR PARTIALLY WITHIN 50% SUPPORT AREA SHALL BE LEFT TOTALLY INTACT.
--- PROPERTY LINE	DITCH	
● POWER LINE	PROTECTED STRUCTURE	
--- 1050 COAL CONTOUR LINE	NONPROTECTED STRUCTURE	
--- NO COAL ZONE	DWELLING-BUILT AFTER APRIL 1966	
--- CROPLINE	CHURCH	
--- 100' COVER LINE	CEMETARY	
--- 6 MONTH SUBSIDENCE LINE (CONTEMPLATED MINING & DATE)	AIR SHAFT (DOUBLE COMPARTMENT)	
--- BOUNDARY OF OPERATION	PILLARED	
--- MINE SUBSIDENCE PERMIT DONT OWN	OUTLINE OF PILLARED AREA UPPER OR LOWER SEAM	
LR32014 STATE ROAD		
--- UNIMPROVED ROAD		

NOTE: FIRST MINING INDICATES NO PILLAR REMOVAL