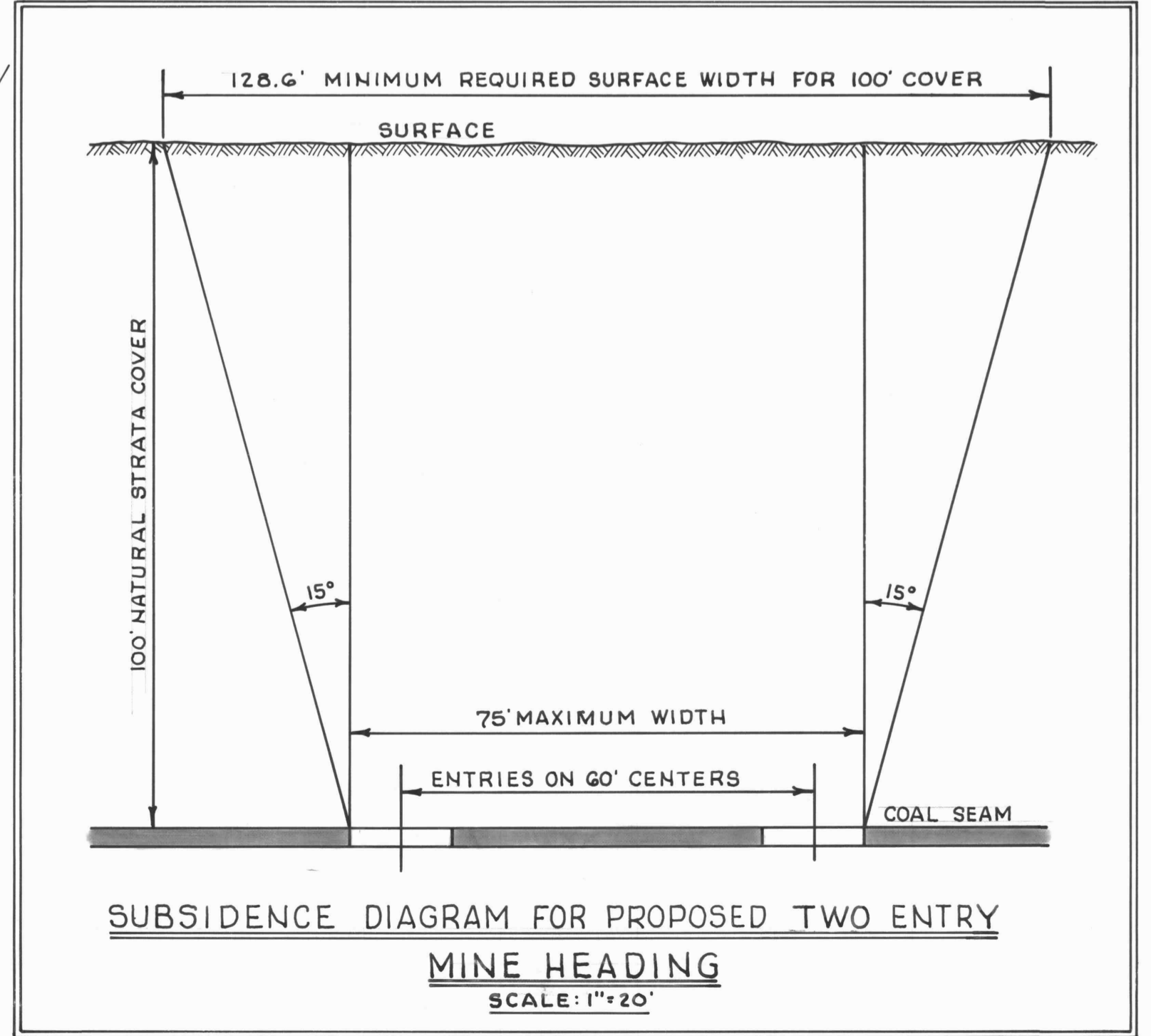
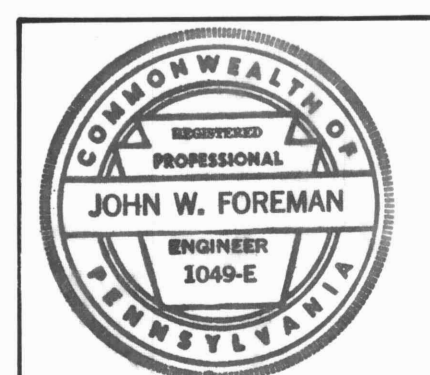


18.87 ACRES
 TOTAL AREA OF SURVEY 47.17 ACRES



- GENERAL NOTES:**
1. Permanent Type Structures or Buildings Should Not Be Erected Over The Reservations As Delineated On This Plan.
 2. The Subsidence Reservations Include Both The Previous Deep Mined Area And The Proposed Mine Entries As Shown.
 3. The Minimum Required Surface Area For Subsidence Of A Two Entry System Is Illustrated On The Left. A Three Entry System On 60' Centers, Maximum Openings Width Of 15', 100' Of Natural Strata Cover, And A 15° Angle Of Draw Will Require A Minimum Of 188.6' Of Surface Width For Subsidence. The Natural Cover On The Coal In The Area Of The Proposed Entries Will Vary From 50' To 135'.
 4. This Plan Has Been Compiled And Correlated From The Existing Mine Map Of Holland Coal Co. Hughes No 5 Mine; Survey Plan & Adjusted Traverse Of John C. Buckley R.S., Pennsylvania Dept. Of Forest And Waters; And From Various Other Plans And Records. This Plan Does Not Represent A Survey Of Gwin Engineers Inc. Or Confirmation Of The Information As Correlated From The Above Named Plans.



APPROVED:
John W. Foreman
 CHIEF ENGINEER-MINING

PLAN SHOWING SUBSIDENCE AREA RESERVATIONS GLENDALE SCHOOL DISTRICT SITUATE WHITE TWP., CAMBRIA CO., PA.		
SCALE 1" = 100'	GWIN, DOBSON & FOREMAN, INC. CONSULTING ENGINEERS ALTOONA PENNSYLVANIA	DATE DEC. 14, 1964