

EXPLANATION

MINING GEOLOGY

- UPPER FREEPORT OR E SEAM
- LOWER FREEPORT OR D SEAM
- UPPER KITTANNING OR C SEAM
- MIDDLE KITTANNING OR C SEAM
- LOWER KITTANNING OR B SEAM
- SCRUBGRASS SEAM
- CLARION OR A SEAM
- BROOKVILLE OR A SEAM

AFFECTED BY OTHER COMPANIES AND FIRE CLAY MINING AREAS



DATE	AFFECTED AREA INCREMENT CUMULATIVE	BACKFILL AREA INCREMENT CUMULATIVE	RESIDUAL AREA
JULY 1952	261.28	172.78	88.50
MAY 16, 1955	28.05	31.91	56.59
JUNE 22, 1957	5.29	37.20	19.34
SEPT 11, 1957	—	322.80	186.68
FEB 4, 1958	—	322.80	87.63
JUNE 18, 1958	4.98	327.78	82.65
MAY 27, 1959	7.21	334.99	75.44
MAY 28, 1960	16.69	351.68	58.75
MAY 27, 1961	11.53	363.21	47.22
MAY 22, 1962	3.66	366.87	43.56
MAY 21, 1963	23.23	390.10	20.33
OCT 6, 1963	—	398.90	11.43
JAN 25, 1964	8.25	407.15	3.18
AUG 10, 1964	3.03	410.18	0.15
JAN 4, 1965	3.33	413.51	—
JULY 8, 1965	3.13	416.64	—
SEPT 16, 1965	—	425.48	—
JAN 6, 1966	6.45	431.93	—
JULY 12, 1966	4.20	436.13	—
DEC 28, 1966	12.23	448.36	—
APR 3, 1967	—	448.36	—

© INCLUDES 4.15 ACRES MODIFIED BY PA. DEPT. OF MINES

17.40 ACRES BACKFILLED FOR APPROVAL

GLEN WHITE COAL AND LUMBER CO.



NOTE: PART OF STRIPPING IN THIS AREA UNDER ACT OF 1945 AND PART UNDER ACT OF 1949, BACKFILL SURVEYS UP TO AND INCLUDING JULY 1952 BY OTHER ENGINEERS.

OPERATION MAP
CAVALIER COAL CO., INC.

SITUATE IN
LOGAN TWP., BLAIR CO. & GALLITZIN TWP., CAMBRIA CO., PA.

SCALE: 1 IN = 400 FT.

LEWIS L. GWIN - CONSULTING ENGINEERS
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