SECTIONS OF OLD BORE HOLES DRILLED BY ANDERSEN COAL MINING CO.

READE TWP., CAMBRIA CO., PENNSYLVANIA

Scale:-
Bore Holes:-1" = 20'
Map:-1" = 1500'

No 2A, Van Horn No 2,

- 39'-0" Surface
- 3'-0" Brown Sand
- 7'-0" Gray Sand
- 8'-0" Sand Shale
- 11'-0" Shale & Clay
- 25'-0" Sand Shale
- 13'-0" Sand Rock
- 5'-0" Shale
- 0'-5" Coal & Clay Mix
- 15'-0" Shale
- 1'-7" Clay
- 17'-0" Sand Shale
- 1'-0" Black Slate
- 13'-0" Sand Shale
- 5'-0" Black Slate
- 164'-9"
- 0'-9" Coal
- 2'-3" Fire Clay
- 5'-0" Sand Shale
- 2'-0" Fire Clay
- 18'-0" Sand Shale
- 2'-0" Sand Rock
- 13'-0" Black Slate
- 10'-0" Sand & Slate
- 218'-2"
- 1'-2" Coal
- 1'-10" Fire Clay
- 3'-0" Gray Sand
- 8'-0" Sand & Slate
- 231'-0"

Intervals: 164'-9", 53'-5"

No 4A, Van Horn No 4,

- 35'-0" Surface,
- 24'-0" Gray Sand
- 60'-6"
- 1'-6" Coal
- 0'-6" Soft Clay
- 5'-0" Flint Clay
- 8'-0" Soft Clay & Sand
- 5'-0" Sand Shale
- 0'-6" Black Slate
- 2'-6" Shale
- 3'-0" Black Slate
- 8'-0" Slate Shale
- 11'-0" Black Slate
- 105'-4"
- 0'-2" Bony Coal } 1'-4"
- 1'-2" Coal
- 5'-8" Flint Clay
- 111'-0"

Intervals: 60'-6", 105'-4"

No 5A, Shaffer No 1,

- 10'-0" Surface
- 34'-10" Gray Sandy Shale
- 8'-0" Gray Sandy Shale
- 3'-3" Sand Stone
- 2'-0" Soft Shale
- 4'-6" Sand Stone & Coal Spars
- 2'-5" Light Shale
- 0'-6" Black Shale
- 68'-1"
- 2'-5" Coal
- 0'-3" Sinder } 2'-9"
- 0'-1" Coal
- 68'-5"
- 0'-4" Black Slate
- 1'-10" Sandy Fire Clay
- 2'-2" Soft Fire Clay
- 10'-3" Lime Stone
- 6'-10" Lime Stone & Fire Clay
- 3'-8" Soap Stone
- 11'-1" Shale & Soap Stone
- 0'-11" Sand Stone
- 106'-9"
- 0'-5" Black Fire Clay
- 0'-10" Coal & Slate
- 1'-6" Sandy Fire Clay
- 16'-6" Sand Stone
- 4'-4" Light Sandy Shale
- 1'-6" Soft Fire Clay
- 9'-4" Gray Sandy Shale
- 6'-9" Sand Stone & Coal Spars.
- 2'-0" Sand Stone & Slate Spars
- 149'-2"
- 0'-4" Bone
- 3'-1" Sand Fire Clay
- 10'-2" Dark Sand Shale
- 0'-5" Sand Stone
- 1'-6" Gray Sandy Shale
- 2'-0" Sand Stone
- 5'-8" Gray Shale & Sand Stone
- 6'-4" Gray Sandy Shale
- 1'-8" Dark Slate
- 0'-2" Black Slate
- 181'-10"
- 0'-8" Coal
- 0'-1" Soft Fire Clay
- 0'-3" Black Slate
- 1'-0" Soft Fire Clay
- 1'-3" Sandy Fire Clay
- 2'-3" Lime Stone
- 2'-8" Fire Clay
- 5'-10" Light Sandy Shale
- 6'-3" Light Sandy Slate
- 3'-6" Dark Sandy Slate
- 2'-5" Sand Stone & Slate Spars
- 10'-2" Gray Sandy Shale
- 2'-9" Sand Stone & Coal Spars
- 11'-8" Black Slate
- 0'-5" Bone & Slate
- 2'-6" Coal
- 0'-1" Black Slate } 2'-8"
- 0'-1" Coal
- 235'-0"
- 1'-9" Sandy Fire Clay
- 236'-11"

Intervals: 68'-1", 38'-8", 42'-5", 32'-8", 53'-2"

No 6A, Shaffer No 2,

- 42'-4" Surface
- 25'-7" Gray Slate
- 68'-5"
- 0'-6" Coal & Slate
- 1'-7" Dark Sandy Slate
- 5'-0" Hard Sandy Fire Clay
- 1'-2" Soft Fire Clay
- 3'-6" Sand Stone
- 1'-1" Light Shale
- 0'-2" Sand Stone
- 2'-0" Light Shale
- 2'-2" Fire Clay & Soap Stone
- 4'-7" Light Sandy Shale
- 2'-9" Soap Stone & Clay
- 1'-10" Soft Slate
- 4'-1" Soft Slate
- 0'-5" Sand Stone
- 4'-1" Dark Slate
- 104'-2"
- 1'-4" Coal & Slate
- 1'-9" Sandy Fire Clay
- 10'-11" Sandy Fire Clay
- 1'-6" Variegated Shale
- 8'-8" Shale & Soap Stone
- 15'-6" Shale & Sand Stone
- 11'-6" Dark Sandy Slate
- 5'-8" Gray Shale & Sand Stone
- 9'-0" Gray Sandy Slate
- 2'-3" Dark Slate
- 0'-6" Black Slate
- 174'-6"
- 2'-5" Coal
- 0'-1" Sinder } 3'-1"
- 0'-2" Coal
- 0'-5" Bony Coal
- 1'-4" Sandy Fire Clay
- 1'-4" Soft Fire Clay
- 0'-5" Lime Stone
- 1'-0" Light Shale
- 4'-3" Lime Stone
- 4'-3" Soap Stone & Clay
- 4'-5" Light Sandy Shale
- 4'-4" Sand Stone
- 10'-1" Shale Sand Stone
- 4'-0" Shale Sand Stone
- 3'-0" Soap Stone & Shale
- 0'-10" Fire Clay, Coal & Slate Spars
- 3'-3" Hard Fire Clay
- 8'-3" Fire Clay & Soap Stone
- 11'-7" Light Sandy Shale
- 1'-11" Fire Clay & Slate Spars
- 1'-4" Light Shale
- 4'-1" Gray Shale & Sand Stone
- 1'-6" Gray Sandy Slate
- 0'-5" Coal & Clay Spars
- 1'-7" Black Fire Clay
- 6'-5" Gray Sand Stone
- 1'-8" Dark Sandy Shale
- 257'-3"
- 0'-2" Slate
- 0'-1" Coal
- 0'-1" Sand Stone } 1'-8"
- 1'-6" Coal
- 3'-6" Fire Clay
- 3'-5" Gray Sandy Shale
- 8'-0" " "
- 4'-8" Sand Stone
- 5'-1" Sand Stone & Coal Spars
- 4'-5" Dark Slate
- 4'-4" " "
- 292'-5"
- 1'-9" Coal
- 3'-8" Fire Clay
- 1'-10" " "
- 2'-3" Lime Stone
- 1'-4" Variegated Shale
- 5'-2" Light Sandy Shale
- 9'-7" Light Sandy Shale
- 1'-11" Black Slate
- 7'-1" Sand Stone & Slate Spars
- 1'-7" Black Slate
- 8'-6" Dark Sandy Slate
- 15'-5" Black Slate
- 354'-3"
- 0'-8" Bony Coal
- 2'-8" Coal } 3'-6"
- 0'-2" Bony Coal
- 357'-0"
- 2'-9" Fire Clay

Intervals: 68'-5", 35'-9", 70'-4", 82'-9", 35'-2", 61'-10"

No 7A, Troxell No 2 or 10,

- 12'-0" Surface
- 7'-6" Sand Stone
- 42'-0" Gray Shale
- 11'-6" Sand Stone
- 17'-0" Dark Shale
- 0'-6" Dark Slate
- 93'-5"
- 2'-11" Coal
- 3'-5" Dark Shale
- 3'-6" Gray Shale
- 2'-6" Lime Stone
- 22'-0" Gray Shale
- 2'-0" Dark Shale
- 127'-8"
- 0'-10" Coal
- 3'-4" Gray Shale
- 18'-0" Sand Stone
- 12'-0" Gray Shale
- 7'-0" Sand Stone
- 4'-6" Dark Sandy Shale
- 174'-8"
- 2'-2" Coal
- 14'-0" Dark Shale
- 6'-8" Sand Stone
- 11'-2" Dark Shale
- 209'-0"
- 3'-6" Coal
- 2'-6" Fire Clay
- 30'-0" Dark Shale
- 9'-6" Dark Slate
- 253'-10"
- 3'-10" Coal
- 256'-0"
- 3'-2" Fire clay

Intervals: 93'-5", 34'-3", 47'-0", 34'-4", 44'-10"

No 8A, Troxell No 1,

- 2'-0" Surface
- 24'-6" Surface
- 6'-0" Dark Shale
- 5'-6" Fire Clay & Soap Stone
- 38'-6" Gray Shale
- 32'-0" Dark Shale
- 109'-1"
- 0'-7" Coal
- 1'-8" Dark Shale
- 28'-0" Gray Shale
- 4'-6" Dark Shale
- 32'-3" Gray Shale
- 10'-2" Gray Sandy Shale
- 7'-4" Gray Shale
- 21'-0" Sand Stone
- 4'-6" Dark Shale
- 0'-8" Dark Slate
- 221'-11"
- 2' 9" Coal
- 5'-0" Dark Shale
- 28'-3" Gray Shale
- 256'-8
- 0'-8" Dark Shale
- 0'-10" Coal
- 3'-0" Dark Shale
- 39'-8" Sand Stone
- 28'-0" Dark Shale
- 330'-1"
- 2'-9" Coal
- 2'-11" Shale & Soap Stone
- 8'-0" Gray Shale
- 15'-6" Dark Shale
- 17'-0" Dark Slate
- 375'-4"
- 2'-10" Coal
- 1'-2" Dark Shale
- 2'-6" Fire Clay
- 26'-0" Dark Shale
- 8'-6" Dark Slate
- 417'-5"
- 4'-7" Coal
- 1'-6" Dark Slate
- 2'-8" Hard Fire Clay
- 9'-11" Dark Shale
- 2'-6" Sand Stone
- 434'-0"

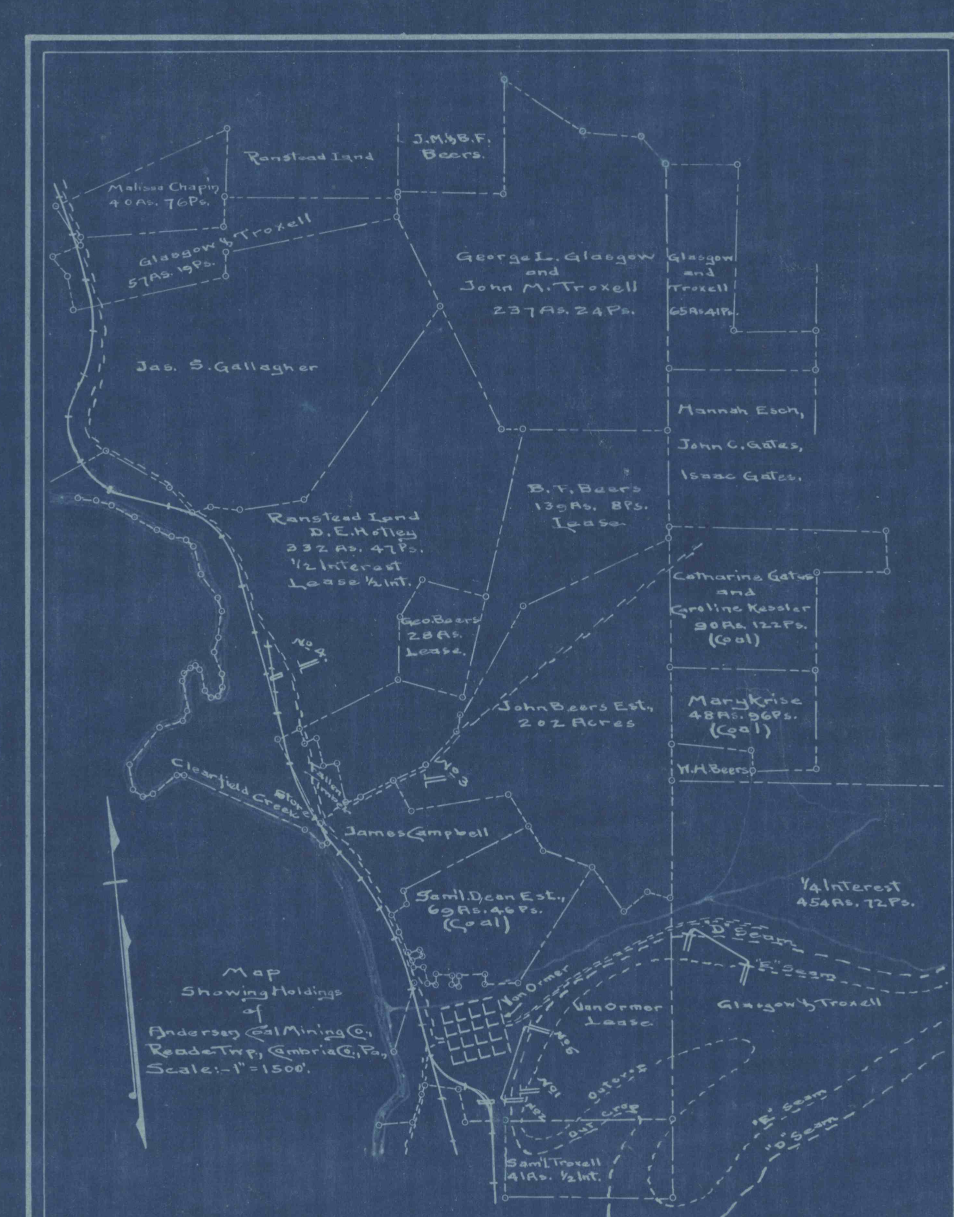
Intervals: 109'-1", 112'-10", 34'-9", 73'-5", 45'-3", 42'-1"

No 9A, Emmons,

- 7'-0" Surface
- 32'-0" Hard Sand Rock
- 3'-0" Dark Soft Shale
- 6'-0" Light Soft Shale
- 4'-0" Light Sandy Shale
- 2'-0" Sand Rock
- 7'-0" Gray Shale
- 13'-0" Sand Stone
- 8'-0" Gray Sandy Shale
- 15'-0" Dark Shale
- 7'-0" Dark Sandy Shale
- 17'-0" Dark Shale
- 123'-3
- 0'-3' Coal
- 4'-0" Fire Clay
- 4'-0" Light Soft Shale
- 7'-0" Light Sandy Shale
- 15'-0" Gray Shale
- 22'-0" Light Soft Shale
- 14'-0" Light Sandy Shale
- 35'-0" Dark Sandy Shale
- Black Slate
- 0'-4" Bony Coal
- 229'-0"
- 2'-10" Coal } 3'-5"
- 0'-1" Binder
- 0'-2" Bony Coal
- 0'-8" Sandy Fire Clay
- 1'-8" Shaley Fire Clay
- 14'-0" Lime Shale
- 20'-0" Gray Shale
- 0'-8" Clay Streaked with Coal
- 267'-1"
- 0'-7" Coal
- 6'-8" Fire Clay & Shale
- 8'-0" Bastard Fire Clay
- 13'-0" Light Sandy Shale
- 10'-0" Sand Stone
- 305'-5"
- 0'-5" Bony Coal
- 1'-4" Sandy Fire Clay
- 31'-0" Dark Sandy Shale
- 339'-0"
- 1'-0" Coal
- 2'-0" Fire Clay
- 0'-1" Black Slate
- 6'-0" Lime Stone
- 17'-0" Light Sandy Shale
- 20'-6" Black Slate
- 388'-10"
- 0'-10" Bony Coal
- 1'-10" Coal } 2'-10"
- 0'-2" Bony Coal
- 3'-2" Fire Clay
- 7'-0" Sand Stone
- 15'-6" Black Slate
- 0'-5" Dirty Coal
- 0'-9" Fire Clay
- 417'-9½"
- 0'-1" Bony Coal } 2'-7½"
- 2'-6½" Coal
- 4'-8½" Fire Clay
- 4'-0" Sand Stone
- 427'-0"

Intervals: 123'-3", 105'-9", 38'-1", 38'-4", 33'-7", 49'-10", 28'-11½"

No 3A, Van Horn No 3,

- 29'-0" Surface
- 2'-0" Brown Sand
- 8'-0" Sand Shale
- 39'-9"
- 0'-9" Coal
- 5'-3" Soft Clay
- 16'-0" Slate Shale
- 61'-3"
- 0'-3" Coal
- 20'-9" Slate Shale
- 24'-0" Sand Shale
- 20'-0" Gray Sand
- 29'-0" Slate
- 155'-4"
- 0'-4" Coal
- 159'-0"
- 1'-6" Soft Clay
- 1'-2" Slate Shale

Intervals: 39'-9", 21'-6", 94'-1"