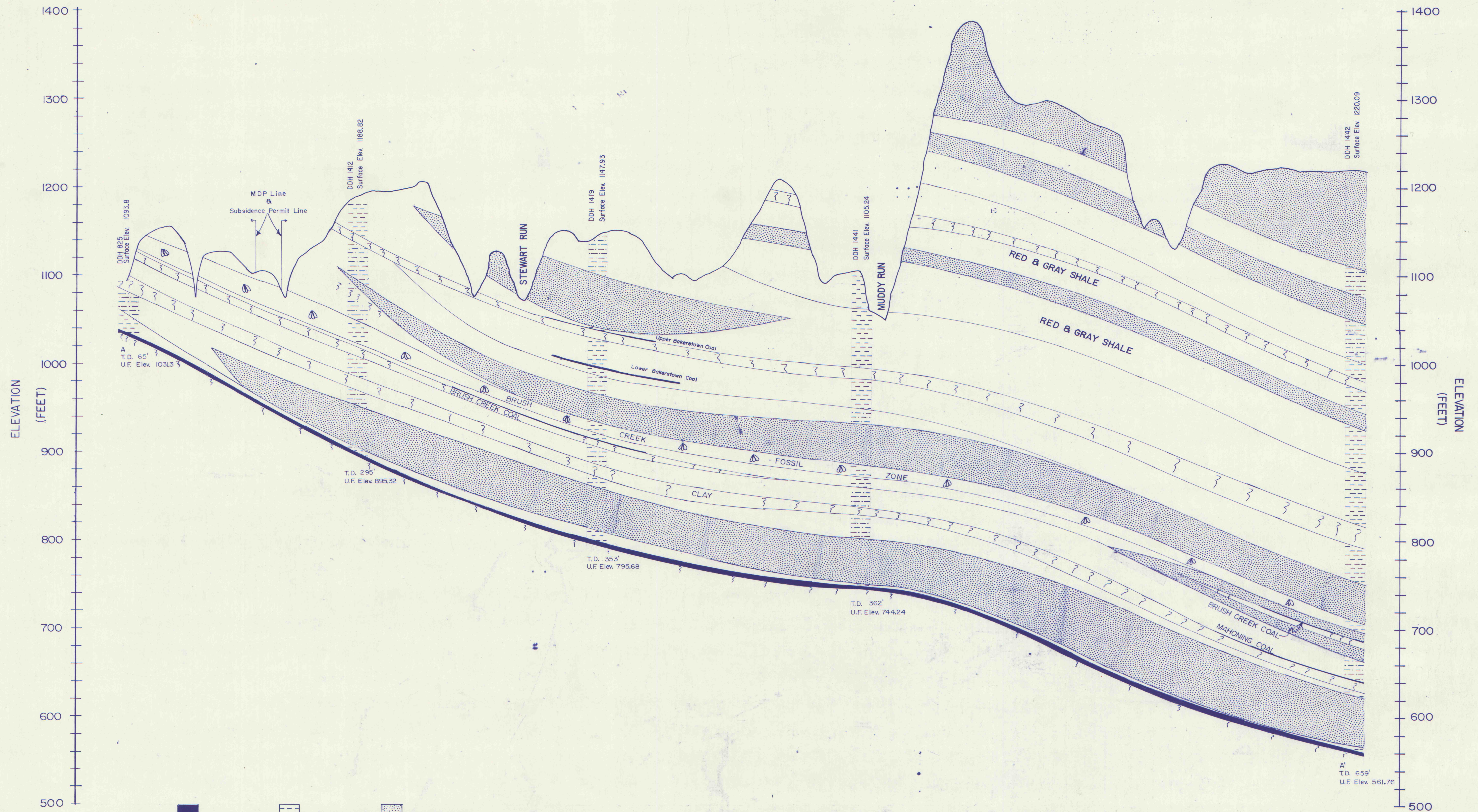




COAL
 GRAY SHALE
 SANDSTONE
 DARK SHALE
 SANDY SHALE
 FIRECLAY
 DDH Diamond Drill Hole
 T.D. Total Depth

Surface Cross Section Line is Taken From
 Approximate U.S.G.S. 7 1/2 Quadrangle Map Elevations

GEOLOGIC CROSS SECTION
 Lucerne No. 6 Repermitting Application
 HELVETIA COAL CO.
 M.D.P. No. 366M025 Sub. Permit No. 352-1A-3
 Center Twp. Indiana County
 Upper Freeport Coal Seam Allegheny Group
 Scale: H-1"=1000' Prepared by: S.H.
 V-1"=50' Drn. by: R.T.L.

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