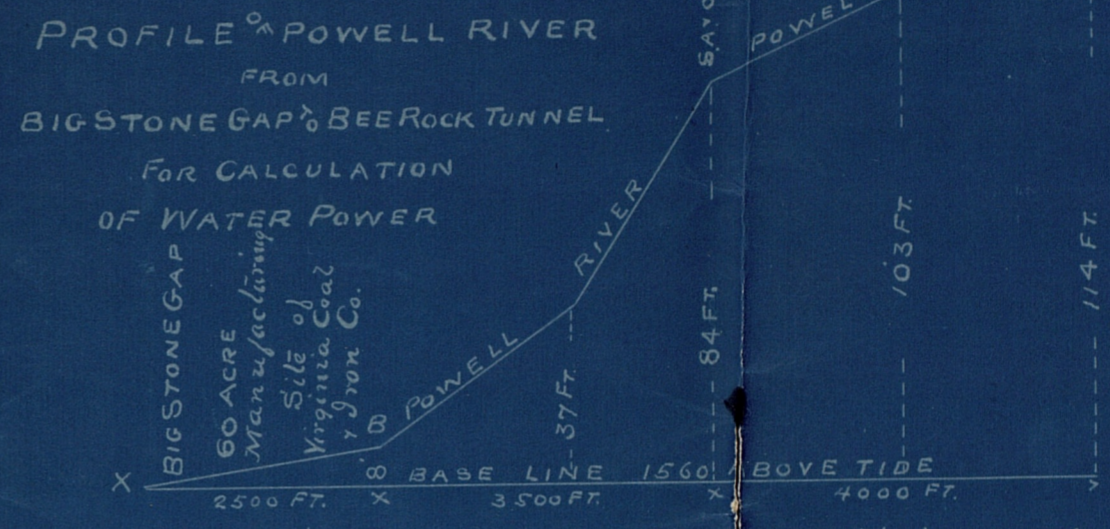




= COAL AND TIMBER LANDS. =  
 = OF =  
 = VIRGINIA COAL & IRON CO. =  
 THAT ARE IN THE  
 = POWELL RIVER WATER SHED =



Diameter of Stand Pipe Inches	Length of Pipe, Flume Feet	Head in Feet	Discharge in Cu. Ft. per Minute	Theoretical Horse Power	Effective Horse Power	Cost of Water line Complete ready for Motors	Equal so many Pelton Water Motors of given size & Horse Power
24	3500	76	1966	280	238	\$8400.	5 - Six Feet wheels of 43" P. EACH 1-5 FT. ° 23 H.P
30	3500	76	3434	490	416	\$9950.	9 " " " " 43 " " " 1-5 " " 29 "
36	3500	76	5418	770	654	\$10800.	15 " " " " 43 " " " " " " "

Note - A six feet Pelton Wheel complete costs \$600 - A five feet Pelton wheel complete costs \$330.  
 A constant of 1000 Horse Power can be had by extending flume line to Bee Rock Tunnel.  
 There is a water shed of 100 square miles tributary to Powell River above Bee Rock Tunnel. Average rain fall 53 in. a year.  
 Above Bee Rock Tunnel rise of Powell River & the main creeks is from 40 ft. to 100 ft. to the mile.  
 At Big Stone Gap (X B on Profile) Virginia Coal & Iron Co. own 60 acres of level land, an ideal manufacturing site - said 60 acres is reached by the Louisville & Nashville - the South Atlantic & Ohio and Powell Valley Railroads - and is only 12 miles distant from Norfolk & Western R.R. at Norton  
 Above Big Stone Gap & tributary to Powell River there is a "virgin" forest of 64000 acres, owned principally by the Virginia Coal & Iron Co. - & made up of Yellow Poplar - White Oak - Chestnut Oak - Cherry - Beech - Maple - Birch - Chestnut Oak - Hickory - Linn - Cucumber - Locust - Hemlock - Holly, etc.  
 From plants located on the Virginia Coal & Iron Co. lands at Big Stone Gap the products would be shipped by the Louisville & Nashville R.R. to Middlesborough - Knoxville - Cincinnati and the south & west. By the South Atlantic & Ohio Railroad to Bristol and points on E. J. & N. W. and B. & O. Railroads - By the Louisville & Nashville and the "Monon. Route" to Chicago - By the Louisville & Nashville and Norfolk & Western Railroads to Roanoke - Lynchburg - Richmond - Norfolk & the seaboard - Harrisburgh - Washington - Baltimore & Philadelphia.  
 The 64000 acres is estimated to furnish at least 640,000,000 ft. B.M. of lumber - the seven large creeks flowing into Powell River can be made to carry the logs by "sluice dams" (to X B on Profile) - and the 654 to 1000 Horse Power furnished by the river at that point be utilized in working the timber to its many uses.  
 In addition to being a valuable timber property the 64000 acres before referred to & owned, principally by the Virginia Coal & Iron Co., carries a 7ft. seam of Coal - coke made from it shows lower in ash - sulphur & Phosphorus and 5% higher in fixed Carbon than the celebrated "Cornellville Coke".  
 Furnace at work at Big Stone Gap on ore mined two miles from "furnace" is turning out a very strong iron & cheap - Miner puts the ore on mine car at 40° a ton. Limestone is put in "block house" at 48° a ton. Four months run of "furnace" shows ore to yield 50% to actual Furnace work. This ore extends all along Wallens Ridge from Big Stone Gap to Cumberland Gap a distance of 60 miles  
 Situated at an elevation of 1550 Feet above tide, with an invigorating atmosphere in which a laborer can do a full days work - with good Railroad facilities - with the highest grade of Coking Coal - with good split and Cannel coals - with furnace at work, claiming the best foundry iron made in the south - with large forests of fine timber - with enormous water power at nominal cost - where would you look for a place of similar advantages for establishing wood working plants - machine shops - car-worcks & tanneries!

Big Stone Gap, Va. Feb. 6th 1893

Virginia Coal & Iron Co.  
 by J. K. Jaggart  
 Gen. Supt.

RAIN & SNOW FALL REDUCED TO WATER	
March 1891	8.68 Inches
April "	2.33 "
May "	4.08 "
June "	7.27 "
July "	4.01 "
August "	6.28 "
Sept. "	1.40 "
Oct. "	1.80 "
Nov. "	3.49 "
Dec. "	4.82 "
January 1892	5.69 "
February "	3.84 "
Total fall 1 year	53.69 Inches

Note - Timber not measured but as to quantity - is the consensus of opinion of a number of "woods men" as to average amount per acre.