

INDUSTRIAL SURVEY OF COLUMBIA POWER PROJECT ANALYZED

Prof. O. F. Stafford of State University and D. A. Lyon of Federal Bureau Report.

SOME LINES PROFITABLE Other Lines of Manufacture Not Feasible, It is Declared, Because of Contributing Factors.

University of Oregon, Eugene, Or., May 6.—It is not now practicable to attempt to utilize western waterpower for electro-chemical or electro-metalurgical manufacturers, excepting in the cases of certain commodities intended for local or Oriental consumption, and excepting also the manufacture of synthetic nitrogen compounds from atmospheric nitrogen.

These are the conclusions in a report made by O. F. Stafford, professor of chemistry at the University of Oregon, upon the feasibility of establishing electro-chemical industries at The Dalles. The report is to be published shortly as a departmental bulletin, and is based upon investigation made jointly by Professor Stafford and by Dorsey A. Lyon, metallurgist, United States Bureau of Mines.

Possible Commodities Enumerated. The commodities set aside conditionally as possible of production are: cyanide and bleaching powder, cyanamides, chlorates, calcium carbide, synthetic atmospheric nitrogen compounds, phosphates from phosphate rock, and ferrocyanide alloy.

The possibility of investigation upon which the report is based was to discover what industry could absorb large enough blocks of cheap power to offset the higher cost of raw material and labor due to the transportation.

Professor Stafford first considers the possibility of securing the necessary raw materials for electro-chemical industries in the west, and under this heading makes a minute analysis of western sources of carbon, limestone, salt, silica, potassium chloride, phosphate rock, iron ore, chromite, bauxite, for the manufacture of aluminum, as well as ores of copper and zinc, estimating in all cases as nearly as possible, under the circumstances, the cost of these materials delivered at The Dalles.

Power Costs Summarized. Briefly summarized, some of the figures advanced in the report are as follows: Power is estimated a costing \$9 per horsepower year, this first figure being the one given by the engineers in charge of the investigation at The Dalles as the probable cost for primary power.

Carbon, as raw material, would cost at The Dalles about \$8 per ton, with the possibility that a large way the figure eventually might be reduced to a minimum of \$6 per ton. In arriving at this conclusion, Professor Stafford has considered the cost of obtaining coke from domestic and Alaskan sources, as well as from Canada, and also has taken into account the possibility of obtaining charcoal as a by-product from wood wasted on logging and milling operations.

Silica is abundant. Silica in crude form is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Iron ore is abundant. Iron ore is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Phosphate rock is abundant. Phosphate rock is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Chromite is abundant. Chromite is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Bauxite is abundant. Bauxite is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Aluminum is abundant. Aluminum is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Copper is abundant. Copper is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Zinc is abundant. Zinc is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

Iron is abundant. Iron is abundant throughout the Pacific northwest, and some very pure deposits occur between Puget sound and Alaska, easily accessible for water transportation.

YOUNGSTERS ENJOY RIDE



Inmates of Baby Home find motoring on warm afternoons exhilarating sport.

These are stirring days in the automobile business and to stop the entire working organization for an afternoon is quite a sacrifice. Maybe, that is why about 40 happy youngsters from the Baby home crowded in high glee as they were taken out to see the sights and why almost as many of the old folks from the Mann home were so spirited and interested in everything that was going on when two local automobile firms put their working organizations at the disposal of these two places.

This was on one of the warm afternoons of the week when everyone was busiest. C. M. Menzies stopped long enough to think that possibly everyone was not enjoying the glorious spring days that have arrived. He mentioned it to the boys and every man there volunteered to put his car at the disposal of the Mann home.

Then followed a wild time for some and a pleasant nap for others. The automobiles were very interesting things. It was a strange coincidence that while Mr. Menzies thought of the Mann home, A. E. Manley thought of someone who might enjoy a ride and called up and invited the youngest of the city out.

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BUSINESS IS GOOD at GADSBYS'

Follow the Crowd---Buy Now---Great Sale of Surplus Stock goes merrily on. Intelligent people know a good thing when they see it. Finding they can buy goods here cheaper by 20% to 50%, they naturally buy; hence our enormous output last week. Our goods are sold on their merits, and our terms are what many people appreciate. Save half the price by buying during the great sale and take time to pay for them. We bought entire stock of a local jobber and are giving you the benefit.

\$10 Kitchen Cabinets for \$4.95. Oregon Made, strong and substantial, two four bins, two drawers, kneading board, china cabinet, all for only \$4.95.

\$40 Steel Range \$29.50. Equivalents in ANY \$40 RANGE in the market. Oven 20x18 inches. Asbestos lined throughout. You can not break the lids. Special price \$29.50. Terms \$5 Down, \$1 Week.

Famous Gibson Cold-Blast Refrigerators. It is the most perfect and most luxurious refrigerator money can buy. It is easy to clean; you can wash and wipe it as you would a china plate. It is the most economical refrigerator you can buy. It will last five times as long as an ordinary kind. The ice chamber is lined with galvanized steel. Provision chamber lined with genuine white enamel on heavy sheet steel. The outside case has heavily rounded corners and edges, beautifully finished. Easy terms at \$10 to \$35.

Porch Rockers and Swings Half Price. This Jumbo Porch Rocker, with cane seat and back, broad arms and high back. Finished light or golden oak. Reg. \$8.50 value. \$4.50 Rockers on sale now for \$3.75. \$7.50 Rockers on sale now for \$3.25. \$5.00 Rockers on sale now for \$2.50. \$4.00 Rockers on sale now for \$2.00. \$3.00 Rockers on sale now for \$1.50. Buy Before They Are Gone. PORCH SWINGS ONE-HALF PRICE.

Miscellaneous Furniture Bargains. \$5.00 Iron Bedsteads, Gadsbys' price... \$2.50. \$6.00 Iron Bedsteads, Gadsbys' price... \$3.00. \$12.00 Dresser, Pacific oak... \$6.75. \$25.00 Chiffoniers, birdseye maple... \$12.50. \$28.00 Napoleon Beds, mahogany... \$14.00. \$7.00 Oak Washstands, with mirror... \$3.50. \$4.00 Commode, three drawers, cabinet... \$2.00. \$12.00 Wardrobes, double door... \$6.00. \$50.00 Chiffonier, oak, with birdseye maple lining... \$25.00. \$10.00 Kitchen Cabinets, Gadsbys' price... \$4.95. \$10.00 Oak Kitchen Cabinets... \$7.50. \$25.00 Kitchen Cabinet, Gadsbys' price... \$12.50. \$30.00 Four-poster Bedstead, in oak or enamel, Gadsbys' price... \$15.00. \$25.00 Oak Buffet, Gadsbys' price... \$12.50. \$12.00 Arm Rockers, oak, high back, spring seat, upholstered in black leather, Gadsbys' price... \$6.00. \$25.00 Morris Chairs, upholstered in leather; Gadsbys' price... \$17.50. \$25.00 Morris Chairs, oak, automatic backs, upholstered, leather cloth... \$15.00. \$15.00 Morris Chairs, adjustable backs, with loose velvet cushions... \$7.50. \$25.00 Oak Extension Tables, five legs, six inches in diameter, eight-foot extension, 48 inches wide... \$10.00. \$35.00 Oak Extension Tables, round, 34 inches diameter, flush four-inch rim, extension six feet... \$22.50. \$25.00 Oak China Closet, Gadsbys' price... \$12.50. \$40.00 Bookcase, waxed or fumed oak... \$20.00. \$25.00 Bookcase, waxed or fumed oak... \$12.50. \$200.00 Mahogany Dining-Room Suite, Adams design, nine pieces... \$125.00. \$50.00 Cheval Dressers, mahogany mirror, 30x36 inches, Gadsbys' price... \$25.00. \$27.00 Princess Dresser, waxed oak, mirror 18x14, Gadsbys' price... \$13.50. \$22.00 Princess Dresser, birdseye maple, mirror 18x20, Gadsbys' price... \$11.00. \$12.00 Oak Extension Tables, six-foot extension, square top... \$6.50. \$18.00 Couches, mission design, wax oak frame, portable spring cushions, covered in brown Spanish leather, etc., Gadsbys' price... \$9.00. \$4.50 Oak Dining Chairs, full leather seat, Gadsbys' price... \$2.70. \$2.50 Oak Dining Chairs, wood seat, panel back, Gadsbys' price... \$1.95. \$2.50 Plate Racks, early English... \$50c. \$25.00 Combination Bookcase and Desk, oak, glass front, with mirror... \$15.00. \$6.00 Library Tables, oak early English finish, top 36x20 inches... \$3.00. \$25.00 Parlor Suites, mahogany on birch, three pieces, upholstered in Spanish cloth, Gadsbys' price... \$12.50. \$7.00 Denim Couches, Gadsbys' price... \$3.00. \$16.00 Couches, in figured velour, full spring edge, Gadsbys' price... \$8.00. \$12.00 Ladies' Desks, in oak... \$6.00. \$20.00 Home Desks, in birdseye maple, mahogany and oak... \$10.00. \$16.00 Standing Desks, bookkeepers', five feet long, Gadsbys' price... \$8.00. \$12.00 Revolving Office Chairs, oak, at... \$5.50. \$6.00 Arm Chairs, solid oak, suitable for parlor or porch, each... \$2.50. \$80.00 Parlor Suite, three pieces, mahogany finish, sofa, arm chair, rocker, upholstered in leather... \$30.00. \$4.00 Rockers, mahogany finish, with cobbler seats or wood, each... \$2.50. \$4.00 Rockers, in oak or elm, very high back, Gadsbys' price... \$2.00. \$5.00 Porch Chairs in Pacific oak have large bent arms, with iron bolt securing base to top, Gadsbys' price... \$1.50. \$12.00 Reed Rockers, very large and elaborate, Gadsbys' price... \$4.60. \$7.00 Reed Rockers, Gadsbys' price... \$3.50. \$35.00 Bed Davenport, oak covered in leather cloth, Gadsbys' price... \$25.00.

\$24 Buffets, at \$11.95. SOLID-OAK, pretty wax oak or fumed finish, colonial design. Regular price \$25, this sale for only \$11.95.

\$10.00 Oak Library Table \$4.95. QUARTERED-SAWED OAK LIBRARY TABLE, regular \$10.00 value now for \$4.95. Only a Few Left.

Gadsby Sells Rugs for Less

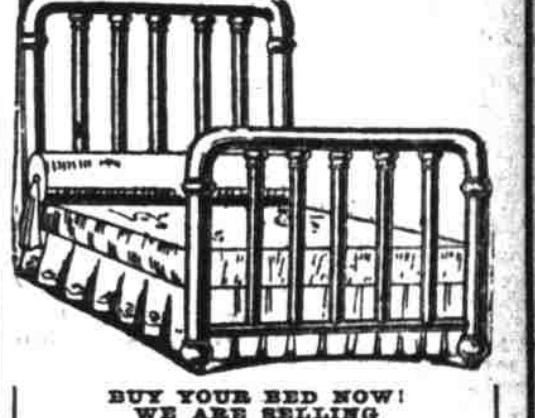
Great Sale This Week on Room-Size Rugs

Your Credit Is Good



Sale of Child's Cribs. CHILD'S WHITE ENAMELED CRIB, with guaranteed spring and drop sides. Special at \$4.75. Gadsbys' this week for \$4.75.

A Great Sale of Steel Beds



BUY YOUR BED NOW! WE ARE SELLING. \$4.50 Iron Beds \$3.50. \$7.00 Iron Beds \$5.75. \$6.00 Iron Beds \$3.75. \$20 Beds \$14.50. \$25.00 Brass Beds \$18.00.

Gadsby's Special Three-Room Outfit



JUST ONE OF GADSBY'S MANY OUTFITS—THIS SPLENDID THREE-ROOM OUTFIT. \$87.50. ALL COMPLETE, AS SHOWN, FOR \$87.50. ON THE EASIEST KIND OF TERMS—THE GADSBY KIND. OTHER OUTFITS AS CHEAP AS \$60.

Carload of Majestic Ranges Have Just Arrived

FREEDOM FROM KITCHEN DRUDGERY. THE MAJESTIC is the sure baker. Its scientific construction forces the heat to every part of the oven, and its asbestos lining reflects the heat onto all parts of the baking. Bread is baked and browned perfectly—top, sides and bottom—without burning. THE MAJESTIC is made of non-breakable malleable iron and charcoal iron that resists rust three times longer than steel. The oven is kept tight, permanently, by cold riveting—not bolted or clamped—no cracks to be putted. The heat is held in and maintained with less fuel. THE MAJESTIC'S economy of fuel, food and repairs, its perfect baking results, and the years it outlasts the ordinary range, prove the wisdom of paying the slightly higher Majestic price. ONE QUALITY, MANY STYLES AND SIZES, WITH OR WITHOUT LEGS.

\$17.00 Bookcases

THIS SOLID OAK BOOKCASE, with full glass door and adjustable shelves, regular \$17.00 value, one-half price... \$8.50.

\$22 Princess Dresser \$11.00

PRINCESS DRESSER, genuine quarter-sawed oak or birdseye maple, with large oval French plate mirror, 18x20; regular \$22.00 value, on sale at one-half price... \$11.00.

WOMAN'S DEATH IS MOURNED BY MANY



Mrs. Mary V. Fitzpatrick.

The death of Mrs. Mary V. Fitzpatrick last Sunday at the residence of her daughter, Mrs. E. G. Leiby, 255 East Eighth street north, is mourned by many friends. Mrs. Fitzpatrick was born in New York City 62 years ago and with her parents moved to Eau Claire, Wisconsin, when five years of age. She was first vice president of the Wisconsin Women's Relief Corps in 1900. In 1905 Mrs. Fitzpatrick moved to Portland. At the time of her death she was first vice president of the Oregon Congress of Mothers. She survived by her husband, Hugh Fitzpatrick, and two daughters, Mrs. Leiby of this city and Mrs. A. G. Hall of Spokane, Wash. The following tribute is paid: "Her life was a successful one in that her great abilities and energies were given in the service of others wherever she went. She worked toward the biggest things of life, and spoke ill of none. She helped others to help themselves." A large number of friends attended the services held at the Finley chapel last Tuesday. Interment was in Evergreen cemetery.

Has a Proprietary Right to Use Heels

Court Rules That Company Not Too Blame for Kick Administered to Employee and Reverses Judgment.

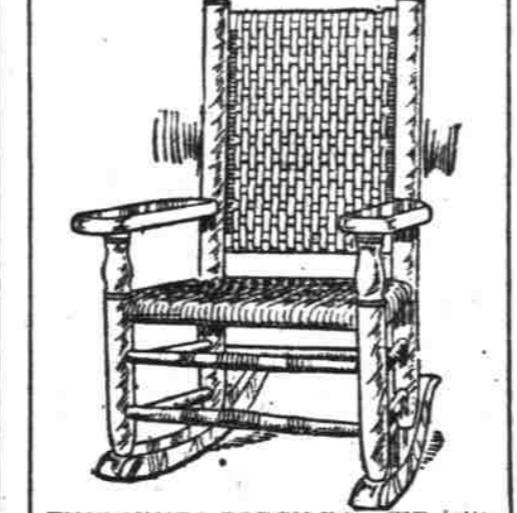
Frankfort, Ky., May 6.—The kicking propriety of a mule is a matter of common knowledge. As a matter of fact, it would be untrue to himself and false to every tradition of his breed if he didn't kick. Therefore, when a mule kicked J. M. Pratt, driver of a mine car for the Consolidated Coal company, when Pratt struck him with a whip and at the same time stopped to pick up a chair at the mule's hind feet, the mule was not to blame, ruled the court of appeals today. The court reversed a judgment of \$500 against the company granted by a lower court. The company's defense was that an employee, "cannot be held liable for the actions of a mule to kick him, and then recover the cost of the mule for consequent injuries."

Is Epilepsy Conquered?

New Jersey Physician Said to Have Many Cures to His Credit.

Red Bank, N. J., May 6.—Advice from every direction fully confirm previous reports that the remarkable treatment for epilepsy being administered by the consulting physician of the Kline Laboratories of this city is achieving wonderful results. Old and stubborn cases have been greatly benefited and many patients claim to have been entirely cured. Persons suffering from epilepsy should write at once to Kline Laboratories, 156 Broad street, Red Bank, N. J., for a supply of the remedy, which is being distributed gratuitously. Ad.

Porch Rockers and Swings Half Price



This Jumbo Porch Rocker, with cane seat and back, broad arms and high back. Finished light or golden oak. Reg. \$8.50 value. \$4.50 Rockers on sale now for \$3.75. \$7.50 Rockers on sale now for \$3.25. \$5.00 Rockers on sale now for \$2.50. \$4.00 Rockers on sale now for \$2.00. \$3.00 Rockers on sale now for \$1.50. Buy Before They Are Gone. PORCH SWINGS ONE-HALF PRICE.

Wm. Gadsby & Sons Washington At First Street