

Great Advances Along Electrical Lines In Utah, Idaho and Colorado.

No year in Utah's history has witnessed greater advances along electrical lines than the one closing. No other section of the west may boast a more potential factor among the attainments of the past year than the broadgauged development in the generating, transmission, distribution, and application of electrical energy, that has gone steadily forward in Utah, Idaho and Colorado.

In two years the reins have been gathered over a score or more of industrial companies generating and distributing electric power in southeastern Idaho, northern and central Utah, and western Colorado, new power houses have been erected, vast water stored, long transmission lines built, modern sub-stations erected, and the unification of the entire system accomplished.

The work the Utah Power and Light company has accomplished throughout those sections of Idaho, Utah, and Colorado served by its lines, stands as a striking example of the possibilities in the utilization of the natural resources of the intermountain country.

Along Bear river, in Idaho, where the company has enlarged the canals carrying the floodwaters of the river into Bear lake, and the excess waters of the lake back into the river when needed, and further down the river where reservoirs, dams and power houses have been erected, extensive operations have been carried on throughout 1914. The large suction dredge owned by the Utah Power and Light company has completed the enlarging of the Outlet canal from Bear lake to Bear river. The former controlling gates which have operated in the Outlet canal at Dike for several years, have been replaced with new controlling gates with a capacity that will amply take care of all discharge requirements for years to come. The Rainbow branch of the Dingle Inlet canal has also been equipped with new controlling gates. These operations marked the completion of the first phase of the operation for the storing in Bear lake each year of the excess flood water of Bear river, so that they may be used to equalize the flow of the river during dry seasons, and in the extensive and important irrigation operation which forms so large and important a factor in the company's plans for the development of the natural resources of the intermountain country it serves.

The company's new power house at Grace, Idaho, on Bear river, was completed early in 1914, and placed in operation February 15. The capacity of this new plant is nearly 35,000 H. P.

Onida is the next point on Bear river where work has been going forward for several years, and at which point a dam and other controlling works were completed late in 1913, that will be made to serve extensive irrigation purposes, and which in addition will equalize the flow of Bear river for points below Onida. The new power house that is being erected at Onida is now under construction, and the sub-structure of the building is completed. It is expected the power house will be placed in commission some time in July, 1915. A great steel pipe line 16 feet in diameter, is being constructed from the intake house of the Onida reservoir to a new surge tank, near the site of the Onida power house. This pipe line is 2,600 feet long and the steel tube is the same size as the McAdoo tunnels under the Hudson river at New York. The surge tank is 120 feet high and 40 feet in diameter. Two steel pipe lines, called penstocks each 12 feet in diameter, lead from this surge tank down to the edge of the river, where the power houses is being erected. The sub-structure of the power house is now completed. The building will be 180 x 65 feet, and five stories high. It will be equipped with two 14,000 horse-power vertical generating units.

GREAT TRANSMISSION LINE
The steel tower transmission line erected by the company and connecting the Grace and Onida power houses, with the new terminal sub-station 6 & 1-2 miles west of Salt Lake was placed in operation Jan. 15, 1914,

and has been successfully operated continuously since that date. This transmission line is 135 miles long, and is one of the largest and longest of its kind in the entire west.

The new terminal sub-station 6 & 1-2 miles west of Salt Lake has been in operation since early in the spring of this year, and represents a large investment in buildings, grounds and equipment. At this sub-station, the entire distributing systems of the Utah Power and Light company are controlled. Heavy feeder lines supply power for the electrical equipment of the Utah Copper properties at Bingham and Garfield; other feeder lines running out from the sub-station supply power for the operation of the Utah Light and Traction system in and around Salt Lake. The site of the sub-station comprises 40 acres, and the company has erected modern cottages for the accommodation of its employees. This is the southern terminal of the 135 mile transmission line running from Grace and Onida on Bear river, and this line delivers a current of 13,000 volts to the sub-station. At the latter the current is reduced and sent out over the feeder lines at 44,000 volts.

A number of lighting customers east of Midvale have been supplied with service through a new extension into the vicinity of East Utton, and at Murray the company has built a new line from Midvale to supply the Utah Junk company with service, and the Murray plant of the Utah Ore Sampling company. The Midvale mill of F. J. Meedi has also been supplied with service, and in the vicinity of American Fork, Lehi, and Pleasant Grove, the second pumping plant of J. H. Gardner has been connected up, and a considerable amount of additional service rendered the Utah Lake Irrigation company. The company's line through American Fork, Lehi, and Pleasant Grove has been rebuilt to accommodate the electric interurban, the Salt Lake and Utah Railway company, operating from Salt Lake to Provo and for the operation of which the Utah Power and Light company supplies electric power. One of the most interesting plants at Lehi, to which the company furnishes service, is the Garff Bros. Electric Refrigeration company which was connected up during 1914.

Several pumping plants in the vicinity of South Jordan are now operated by electricity.

Many and important improvements are planned by the Utah Power and Light company for each district it serves throughout the company's entire territory during 1915. Many thousands of dollars will be expended throughout the communities of the territory that extends from Ashton, Ida., on the north, to Eureka, Utah, on the south, and these improvements will form an integral part of the growth and development of these communities during the coming year. The officials of the Utah Power and Light company are laying the greatest possible stress on its endeavors to bring its electric service to the highest possible plane of efficiency. This is the goal toward which is directed every effort of the company and its employees. The splendid cooperation the company has received from customers and the public generally throughout its territory has proven of the greatest assistance, say officials of the company.

The men who are at the head of the Utah Power and Light company and direct its operations and activities include many men whose business interest lie almost wholly in the intermountain west, and who are vitally interested in the development of this section. D. C. Jackling of Salt Lake in president of the Utah Power and Light company, and W. S. McCormick, president of McCormick and Co., bankers, is senior vice president of the company. The directors are M. H. Walker, president of Walker Bros., bankers, Salt Lake; T. R. Cutler, general manager of the Utah Idaho Sugar company, Salt Lake; P. J. Moran, contractor, Salt Lake; C. W. Nibley of Salt Lake, C. E. Loose of Provo, Utah, and Hukley Wells of Telluride, Colo.

The Western Colorado Power company, with general offices at Montrose, Colo., is a subsidiary of the Utah Power and Light company, and serves a large mining and commercial field in Western Colorado.

To Our Readers

During the past few weeks we have been making an effort by sending out statements and by giving notices through the papers, to collect money due us on delinquent subscriptions, and we wish herewith to express our appreciation for the response given by many, but there are others who have taken no heed, and we ask them to either call or send the amount in by mail.

It takes money to put out newspapers, and especially the kind of papers we are turning out, and our bills have to be paid out of that which we get from our patrons. The close of the year is coming, and in keeping with the good custom, we too wish to begin the new year just as nearly "square with the world" as it is possible for us to be. So we ask that all those who are still owing us, call, or send the amount due and get receipts for payment.

ALPINE PUB. CO.

Boy Goes Free To Panama Exposition

Prize Potato Grower Tells How He Won the Prize—Good Depe For Any Boy.

Howard Dalton, the boy who won the prize for growing the best half acre of potatoes in the state lives in Willard, Box Elder County. He tells of the methods adopted. Following is his story:

"In the early part of 1914 I bought my seed potatoes. I purchased the Idaho Rural potatoes. They were not specially selected potatoes, therefore I was very careful in preparing the seed for planting. I was anxious that every seed piece had one or two perfect eyes on it. I then treated the seed with formaldehyde solution (one pint to thirty gallons of water). This treatment consisted of soaking the seed, before cutting, for two hours in the prescribed solution. The purpose of the treatment was to kill any scab germs appearing on the surface of the potatoes. Other than this there was no treatment given.

"From March 20 to 20 I prepared my land. I covered the land with barnyard manure, using eight tons of the material to the half acre. Plowing twelve inches deep, and immediately followed the plow with a spring tooth harrow, going over it three times. I did the plowing in the forenoon and followed with the harrow in the afternoon to conserve the moisture and mellow the soil. After harrowing I pulverized the clods by dragging up the soil with a square frame timber, trying in every way to be particular about every phase of cultivation, as I figured that the secret of my success was good cultivation.

Kept Soil Mellow.

"Five days later I again went over the land with a spring tooth harrow. The following week I did the same thing, which kept the soil moist and mellow. Just before planting I went over it again with a square timber in order to make it perfectly level. On April 18 I planted the seed in plowed furrow four inches deep and the rows thirty inches apart, the seed being dropped about twelve inches apart in the rows. The seed was then covered about four inches deep with a small hand plow, and as soon as the little plants appeared above the ground I began my work in the field, at once

removing all the weeds by giving it a thorough harrowing with a spike tooth harrow. This I did on May 5 and repeated it on May 12, and on May 26 used the hand cultivator drawn by one horse, giving them a thorough cultivation with this implement, after which I cultivated them once with the hand hoe, cleaning out all the weeds.

"Up to June 15 the plants had grown rapidly, and gave a strong, vigorous appearance. Soon after this date they began to blossom, and on June 25 I gave them the first application of irrigation water; irrigating them on July 5, and again on July 20. The crop was matured with but three applications of water.

Cultivation Is Completed

"After the second irrigation the vines were so tall that I could not work in them without destroying them. The operations practically ceased from this time until the tubers were ripe and ready for digging. I sent a selected fifty pounds to the State Fair, which was held in Salt Lake City, for which I received honorable mention by the judges. On October 13 and 15 I harvested the crop and the potatoes were weighed and sold right from the field. I found from a careful checking of the weights that my half acre had produced 290 bushels of marketable potatoes, the equivalent of 720 bushels per acre. The following table will give the itemized cost of production with the net profit per half acre.

Value of fertilizer	2.00
Cost of spreading fertilizer	1.00
Plowing	1.00
Harrowing, six times	1.50
Cost of seed (450 pounds)	5.00
Leveling	1.00
Planting of seed	2.00
Cultivating	1.00
Irrigation	1.50
Weeding	1.50
Harvesting	15.00
Rent of land	8.00

Total cost of production ... \$46.50
Value of crop ... \$187.77
Cost of production ... 46.50

Net proceeds ... \$141.27
"This experiment was conducted on a half acre of ground and so to show that potato culture is worth \$282.54 an acre in this portion of the state."

OPENING DATES FOR COURT

This week Judge Morgan set the following dates for opening court in Utah county for 1915.

Monday, January 4; Monday, April 5; Tuesday, July 6; Monday, October 4.

January Jurors.

The following jurors have been drawn for the January term of the Fourth District Court, venire returnable, January 5: G. Edward Abel, Thomas J. Barratt, Elijah Cutler, John A. Wagstaff, John A. Ovard, American Fork; Leonard A. Hill, Mapleton; Henry Lewis, Sr., Thomas Crabbe, George P. Garff, J. E. Cotter, Lehi; Roe E. Hawkins, Thomas E. Reece, Wm. L. Worsenroft, O. E. McClellan, Payson; Jabes Goodman, Provo Bench, Alfred Roger Beck, Jacob Hanson, Wm. Grotgeut, Spanish Fork; Joseph H. Jones, Lake Shore; Thomas W. Allen, Arthur Craven, John T. Taylor, Mathis Knudsen, Provo; Robert Shay, Elberta; H. S. Weeks, Pleasant Grove.

Court Notes

An action has been filed in the Fourth district court by Utah county against Isaac Boley et al., and against Mary Ann Boley to condemn land near American Fork owned by defend-

COUNTING THE MINUTES



dants for county road purposes. Lawrence Briggs vs. Charles D. Charlier, dismissed for lack of prosecution.

Wagstaff Gets Judgement

Amos Wagstaff was this week, in the District Court, granted a judgement of foreclosure against Charles Hanks et al., for \$2,094.40, \$160 attorney fees and costs of court.

COUNTY BUSINESS

The County Commissioners to relieve their successors of too much trouble in filling office vacancies, at their last session, appointed the registrars of vital statistics for Utah County. Following are those for this end of the county: Alpine, Mrs. T. J. Bateman; American Fork, Mrs. Anna Greenwood; Cedar Fort, Fannie N. Berry; Fairfield, Emma Carlson; Highland, A. C. Zabriskie; Lehi, Mrs. Ada Evans; Provo Bench, Sarah T. Fatten; Vineyard, Charles H. Williamson; Mosida, Lydin E. Moore.

MANILA NEWS

The Manila Mutual Improvement Association will give a holiday dance next Tuesday evening in the school house. The general public is cordially invited. Tickets will be 35c.

Miss Edice Warnick, who has been teaching in the Branch Agricultural College in Cedar City, is home for the holidays.

The Manila Primary Association will give a program in the ward house Christmas Eve, which promises to eclipse all other entertainments of the season. Each child will make two Christmas presents with which the big Christmas tree will be decorated, the presents being the workmanship of their own hands. The parents will provide the necessary sandwiches and cake and the affair will commence promptly at 6 p. m.

Following is the program:
Song, "Welcome to All"—Primary.
Prayer—
Song, "Rock-a-Bye Baby"—Primary.
Bible Reading, Luke 2, 11, 20—Arza Adams.
Song, "Star of Bethlehem"—Fern Wadley.
Reading, Matt. 2; 1-92—Vilgee Rad-mall.
Song, "Day Before Santa Claus Comes"—Girls' Chorus.
Recitation, "The Good Little Sister"—Jesse Iverson.
Song, "The Crystal Choral"—Boys' Chorus.
Recitation, "Two Little Stockings"—Company of Girls.
Reading from the Bible Christmas Carol—Mrs. Angie Warnick

Send the Review for one year to an absent friend for a Christmas present. They will certainly appreciate it each week.

Panama-California Exposition

At San Diego, California, opens January 1, 1915. Special Excursion tickets on sale at all Salt Lake Route stations in Utah, December 19, 20, 21, 22 and 29th. See nearest agent for particulars, or write A. G. P. A. Salt Lake Route, Salt Lake City, 5-41.

The Review wants your job printing Messrs Business Man, Professional Man and Every Day Citizen. 28-11

NOTICE OF SALE

Notice is hereby given, that whereas, T. R. Cutler, Jr., at the request of Anthony M. Nelson, between the 1st day of May and the 6th day of November, 1914, did bestow labor and make repairs upon a certain automobile owned by said Anthony M. Nelson, which labor and repairs were reasonably worth the sum of \$101.60; and at the request of said A. M. Nelson did keep and store the said automobile from the 7th day of November, 1914, up to the date of this notice, for which storage the sum of \$1.00 per day is a reasonable charge; And, whereas said A. M. Nelson has not paid for said labor, repairs, or storage or any part thereof and there is now due and unpaid on said indebtedness the sum of \$101.60 for labor and repairs and the further sum of \$42.00 for storage charges, and said T. R. Cutler, Jr., claiming a lien on said property for the payment of said sums.

Now therefore the property above described, to-wit: One Ford Automobile, 1910 Model, will be sold pursuant to authority given under Sections 1404 and 1405, Compiled Laws of Utah, 1907, at public sale to the highest bidder for cash, on the 4th day of Jan., 1915, at 12 o'clock noon, of said day, at the Auto Garage of said T. R. Cutler, Jr., in Lehi City, Utah County, Utah, to satisfy the debt secured by said lien and the costs and expenses of these foreclosure proceedings. Dated at Lehi, Utah, this 19th day of December, 1914.
T. R. CUTLER, JR., Lien Claimant.
J. TRACEY WOOTTON, Attorney.
First pub. Dec. 19—last Dec. 26, 1914.

WANT ADS

FOR SALE—CHEAP—A lumber barn. Enquire at this office. 26-21

FOR SALE—One Queen Incubator 120 egg size, and one Ideal over—Both as good as new. Inquire of G. H. Hanson or Phone 76, American Fork. 19-21

FOR SALE—Good Cedar Posts, write Fairfield. 19-51-pd

EAGLES ARWANA

(Blue Ribbon Winner)
A famous registered bull at S. D. Chipman's barns. Service \$1.50. Also a splendid young full blood Jersey bull for sale cheap. 12-41

FOR SALE—My home in Lehi, also 120 acres of Cedar Valley dry farm land. Charles Ohran, Lehi. 28-11

FOR SERVICE—Pure bred Jersey bull; also fine registered Berkshire boar. J. L. Harvey. 21-11

KELSEY'S Universal Agency

475 South 5th East, Salt Lake City
202 24th Street, Ogden

Dealers in Books, Bibles, Magazines, Office and Household Supplies.

One dip, then write 600 words or draw 300 ordinary lines with the One-Dip Pen; 1 box 12 pens, 40c; 3 boxes \$1.00.

UNIVERSAL CLUB OFFERINGS OF BOOKS AND MAGAZINES

Special, one year, Woman's World, Family Home Life and Fancy Work Magazines, regular price \$1.10; a 50c pattern coupon or a 50c song book given free with each subscription. Kelsey's Universal Agency price 58c.

Book giving the history of the battles fought in the present great world war and 1 year subscription to Sunset, The Pacific Monthly Magazine, special price \$3.75.

Wanted—Twenty neat appearing young ladies to solicit subscriptions. Salary or commission. Address Kelsey, care

ANDERSON AND SON—Pleasant Grove.

JOHNSON AND SONS—Lehi.

AMERICAN FORK CITIZEN—American Fork.

A BIG PAPER LATER

The Alpine Pub. Co. will print three large Booster's Editions in the spring of 1915. After due consideration we decided the editions in the spring would bring better results to the advertisers, and the North End of Utah County, than the Xmas or New Year's editions, and results are what we are after for the North End of Utah County.

Arvilla Clark
Vocalist-Pianist

Tabernacle Choir Concert Given In The Alpine Stake Tabernacle
Monday Dec. 28, at 8 p. m. Tickets 25 cents Children 15 cents

Willard Andelin
Basso Profundo