

ARTESIAN BASINS OF OREGON AND IDAHO

Flowing Wells Can Probably be Obtained in Many Places—Warm Springs An Indication, But Hot Springs Are Not.

Flowing wells can probably be obtained in a number of districts in Southeastern Oregon and Southwestern Idaho, according to a report issued by the United States Geological Survey as Water Supply Paper No. 78. This report which was prepared by the late Professor I. C. Russell, is the result of a geological investigation in parts of Canyon and Owyhee counties, Idaho, and of Malheur and Harney counties, Oregon, made with the special object of discovering localities where flowing water can be obtained by drilling wells.

The presence of artesian conditions in an area is frequently inferred by geologists from a study of rock structure. In what is properly termed an artesian basin the layers of rock are bent downward, so as to resemble a pile of shallow plate-shaped dishes, placed one within another. One or more of the beds of rock is porous and allows water supplied by rain on its upturned edges to percolate into it. Above and below the water-charged layers are close-textured rocks, like clay, that prevent the escape of the water in the bed between them. A number of such structural basins are found in the region studied by Professor Russell.

Significance of Springs.

Confirmation of the supposition that water under pressure exists beneath the surface in any area is found at many places in the occurrence of warm springs—those with temperatures ranging from 60 degrees to 100 degrees Fahrenheit. As the water in artesian basins has descended from the surface, and as the temperature of the earth increases with depth, the deeper the water has penetrated into the rocks the higher will be its temperature. The increase in the temperature of the earth below a depth of about 50 feet in temperate regions is in general about 1 degree Fahrenheit for each 60 feet, but here is considerable evidence favoring the conclusion that in southern Idaho and adjacent parts of Oregon the rate of increase is approximately 1 degree Fahrenheit for each 45 feet in depth. At the depth of 50 feet the temperature corresponds to the mean annual temperature of the locality chosen, which in this region is approximately 50 degrees Fahrenheit, so that if a spring in this region has a temperature of 65 degrees Fahrenheit, or 15 degrees above the temperature of the stratum of no seasonal variation, it would be safe to conclude that the water rises from a depth of at least 675 feet below that stratum, or 725 feet below the surface. Such a spring would manage the affairs of the Seth Low, depth to which a well should be bored to penetrate the water-charged rock layer.

Hot Springs from Great Depths.

Professor Russell calls attention to the fact that while warm springs may indicate the presence of a water-charged layer that would supply flowing wells, a hot spring, or one having a temperature of more than 100 degrees, is not so favorable an indication. Hot springs ordinarily rise from depths so great that even if they come from a well-defined water-charged layer it would be unavailable as a source of supply for most purposes for which artesian water is used, as the expense of drilling to reach it would be unjustifiable.

The report referred to, which may be obtained free of charge by applying to the director of the geological survey at Washington, D. C., contains a discussion of the artesian conditions, illustrated by diagrams, and describes the various basins, whose locations are shown by a sketch map. A detailed account of the wells and springs of the region is given, and suggestions are made in regard to the size of drill holes, casing of wells, and preservation of well records, the importance of which is too often overlooked.

MEDFORD LIBRARY BOARD PERFECTS ORGANIZATION

The library board met at the Commercial clubrooms, Monday evening, March 9. In the absence of Chairman Reddy, W. I. Yawter was chosen as temporary chairman and the following officers were elected:

President, Mrs. Stoddard.
Vice-President, W. I. Yawter.
Secretary, Mrs. B. P. Theiss.
Treasurer, Mrs. E. W. Hollis.

A committee was appointed on shelving and furniture for library room as follows: Messrs. Watt and King. The committee appointed to check off list of books at Haskins' Drug Store donated to library, Ed Andrews, Mesdames Merrick and Hollis.

The board is to meet at the Commercial clubrooms March 15 at 3 P. M., when a complete list of books will be selected and purchased, and the library will then be ready for the public.

A number of people have offered volumes and sets of books for the library and they are kindly requested to send a list at once to Ed Andrews to avoid duplication in ordering books.

FREE LECTURE UPON COOPERATIVE COLONY

Jesse Watson of Los Angeles, representative of "La Prosperidad" Co-operative Association, owning a tract of half a million acres in Lower California, is in Medford to lecture upon his concern, one of the largest co-operative associations in the world. It is capitalized at \$50,000,000 and has headquarters at Los Angeles. The land is in the central part of the peninsula. He will deliver free lectures illustrated with views at Angles opera house Thursday and Friday evenings.

AMUSEMENTS

"The New Black Crook."
Instead of ballets there will be a profusion of "musical numbers," as exemplified in the modern musical comedy, in "The Black Crook," which is to be presented at the Medford Opera House tomorrow night, Thursday, March 12.

Messrs. Miller & Phoku, in reviving the old spectacle, have seen fit to make this innovation, and while there may be some doubt to the lay mind as to the wisdom of their course, in thus destroying tradition, they seem to feel sure of their position. They have provided an exceptionally large company for the presentation of the "Crook" this season. Many new electrical effects have been added to the production for this season. In the olden days when "The Black Crook" was so popular with the fathers of the present generation these effects were unknown. Consequently the present management of the extravaganza claim that their presentation is a vast improvement over the original production.

The Donazzetta Family, a startling European aerobatic act, is one of the features of Miller & Phoku's production of "The Black Crook" this season. The Donazzettas are well known on the other side, having appeared in most of the European capitals where they are great favorites. The Donazzettas have been seen but little in America of late years, but it will be remembered that some time ago they were the features of "The Span of Life," a melodrama which was a sensational hit a few years ago.

NEW CASES.

Charles E. Hooper vs. Emil Peil. P. M. Collins attorney for plaintiff. Petition for writ of review.

MARRIAGE LICENSES.

W. B. Jones and Lydia M. Knighton, Carl Cox and Etta Haskins, Calvin Ray Dennis and Edith Florence Schlin.

GREATEST DISCOVERY OF GOLD MADE AT RAWHIDE

RAWHIDE, Nev., March 11.—What is considered the greatest discovery in the history of gold mining in America has been made here within the last 24 hours.

Rawhide Consolidated ground is the scene of the rich strike, which was made by the big four lease. An assay of the 75 pounds of rock taken from the hole runs \$9214 to the ton, the proportion of the metals being about one ounce of silver to two and one-half ounces of gold.

Many think this strike will prove to be greater than the one made by the Hayes Monette lease on the Goldfield Mountain, which yielded \$5,000,000 in 150 days.

NOTICE OF ELECTION.

Be It Resolved, by the City Council of the City of Medford, Oregon, the Mayor approving, That there be, and is hereby called a special election in said city for the purpose of submitting to the voters of said city for their approval or rejection, a proposed amendment to section 72 of the City Charter of said city, and such other matters as may lawfully be brought up at said election; that said election be held upon the 17th day of March, 1908, between the hours of 8 a. m. and 5 p. m. of said day.

The following are hereby designated and appointed as the polling places and the judges and clerks of said election:

For the First ward—Polling place, Old City Hall, over Haskins' drug store. Judge, Geo. A. Jackson; judge and clerk, P. M. Jordan; judge and clerk, J. U. Willeke.

For the Second ward—Polling place, sample room of Hotel Nash. Judge, V. J. Emerick; judge and clerk, D. G. Karnes; judge and clerk, H. H. Harvey.

For the Third ward—Polling place, City Hall. Judge, A. T. Drisko; judge and clerk, P. M. Stewart; judge and clerk, C. E. Collins.

The foregoing resolution was adopted by the City Council February 26, 1908, Taylorbridge, absent; Elbert voting aye, Wortman aye, Merrick aye, Hafer aye, Givell absent.

Approved February 26, 1908.
J. P. REDDY, Mayor.

Attest:
HENJ. M. COLLINS, Recorder.

No Fire in the Kitchen Range No Hot Water in the House

Then is the time you appreciate the convenience of

ELECTRIC WATER HEATERS



Attach a plug to the nearest lamp socket and turn the switch

PINT, QUART, TWO QUART AND LARGER SIZES

Pint Size is specially adapted for nursery.



Clean Safe Simple Durable

CALL AT OUR OFFICE 211 1/2 SEVENTH STREET

Coudor Water and Power Co. Office on Seventh Street. Opposite the Electric Sign.

R. W. GRAY, Builder

COLONIAL PORCH WORK, GRILL AND LATH WORK, PATTERNS, ETC.

TELEPHONE 471. MEDFORD, OR.



\$1.00 a week slips through your fingers before you know it, and nothing to show for it.

That \$1.00 a week will put a Victor or an Edison in your home right away. Good music and hearty fun. Why not surprise your family with a Victor or Edison?

H. G. KING

West Seventh Street. HALE'S PIANO HOUSE.

SPREAD THE NEWS

Colonists' Rates

Colonist Rates from all points East to Oregon from March 1 to April 30, 1908

The Southern Pacific Railroad

Announces that rates in effect March 1, 1908, will be \$38 from Chicago, \$35.50 from St. Louis, Mo.; from Missouri River common points, Council Bluffs to Kansas City, Mo., including also St. Paul, Minneapolis, \$30; from Denver, Colorado Springs and Pueblo, \$30.

For further information call on or address
A. S. ROSENBAUM, Agent, Medford, Or.

A bit of Alfalfa Land

Every one posted on the land situation in this valley knows that good hay land is going to be in demand from this time forth, owing to so much of our alfalfa land having been planted to fruit trees. We are able to offer for a short time

25 ACRES OF THE BEST

Only three miles from Medford, for the reasonable price of

TWO HUNDRED DOLLARS PER ACRE,

And we pronounce it one of the best buys in the valley today. It is of the best quality, and we know it will prove a winner to the buyer. It is equally well adapted to pears. If it interests you, call at once on

Rogue River Land Co.

EXHIBIT BUILDING, MEDFORD, OREGON.

Do You Want a Good 5-ACRE TRACT

Close to Medford, fine location, good fruit and poultry land. Prices, \$90 to \$125 per acre. Easy terms

DRESSLER & WOOD

West Seventh St. Medford, Or.



THE SECRET of why our bread is in such demand for its fine quality, lightness and most delicious flavor is that it is made from choice winter wheat and by the best methods known in baking to give nutrition and enjoyment of eating at the same time. If you are not using Van Hordenberg Bros.' bread, try it.

Medford Steam Bakery

The Medford Brick Co.

Composed of W. G. PRIDDY, O. D. NAGLE, G. T. O'BRIEN, manufacturers COMMON AND PRESSED BRICK.

General contractors and builders in all its branches. Plans and estimates furnished. All work guaranteed.

LIME, PLASTER AND CEMENT FOR SALE.

"PRIDE OF THE NATION" OR "SNAPSHOT."

Remit 25c in stamps to C. S. Mitchell, Ashland, Or., for either of these latest and greatest March Twentieths, which rank among the best ever composed. Ask to hear them played at any music store.



For Smart Dressers

WE WILL SHOW YOU THE LARGEST LINE OF SMART CLOTHES TO BE FOUND IN THE CITY. YOUNG MEN AS A GENERAL THING ARE THE SMART DRESSERS. THE UP-TO-THE-MOMENT YOUNG MAN IS A SORT OF A LEXICON OF CLOTHES, STYLE AND CORRECTNESS. HE KNOWS WHAT'S WHAT AND GETS IT. BUT GOOD FIT, THE NEWEST PATTERNS, AND COLORS, AIN'T ENOUGH, FOR, UNLESS THAT SNAPPY, JAUNTY APPEARANCE CHARACTERISTIC OF OUR EXCELLENT CLOTHING IS THERE, IT ISN'T WHAT THE YOUNG MAN WANTS. OUR SUCCESS IN PLEASING YOUNG MEN IS NOT JUST "LUCK." IT'S DUE TO OUR KNOWLEDGE OF WHAT THE YOUNG MAN WANTS AND OUR

Ability to Provide It for Him

THEN AGAIN OUR PRICES ARE ALWAYS REASONABLE. SUITS AT \$15, \$17.50, \$20, \$25, \$27.50 TO \$40 THAT WILL AT ONCE APPEAL TO THE SWELL DRESSER. DROP DOWN AND LOOK AT THE DISPLAY OF NOBBY SUITS IN OUR WINDOWS.

Model Clothing Co

MEDFORD'S CORRECT CLOTHIERS

A Homesite Made To Your Order

If you had been present when Nature first fashioned abodes where men must live, there is nothing you could add to QUEEN ANNE ADDITION to make it a more desirable site for a home it already is.

From a standpoint of scenery, healthfulness, proximity to business district, intrinsic loveliness and all modern conveniences, you are challenged to find its equal around Medford.

QUEEN ANNE ADDITION is the Nob Hill of Medford, is situated on a gentle slope off East Seventh street, overlooking the Rogue River valley and its metropolis. It is within five minutes' walk from the postoffice. QUEEN ANNE HAS NO RIVAL AT ANY PRICE.

Lots in QUEEN ANNE are genuine money-makers. Property values are increasing rapidly, and you will double your money within a year.

Buying a lot in QUEEN ANNE and the building of a home is the emancipation proclamation of a new life and the casting off of the old.

THE TERMS ARE EASY—20 PER CENT DOWN AND \$10 A MONTH. THE PRICE IS LOW, FROM \$75 A LOT UP.

The purchaser of lots in this addition is protected by a \$1200 building restriction, which insures to the home-erector a most desirable class of neighbors and means that the addition is destined to be the exclusive residence portion of Medford.

FOR FULL PARTICULARS INQUIRE OF

E. E. Kelley,

Palm Block Medford Oregon