### Aurhority Tells How Clear Lake Was Formed by Nature's Action

Nestling at the foot of Mount Washthe U. S. Forest Reserve in Linn

quarter of a mile in width and av tains its maximum depth of one hundred ninety-six feet at practically its mid length. Except for two small and unimportant creeks or rivulets, the source of water supply is solely sub-terranean, saving during a limited period of the carly summer, when the melting snows discharge twelve hundred second feet of water through its outlet, then, and then only is there a surface discharge into the take through a shattered water way leading from Fish Lake.

The greatest visible inflow is 'through the "Giant Spring." a lava basin sixty feet in diameter and sixteen feet in depth, floored with dazzling white volcanic sand and discharging in minimum, eighty-six second during each twenty-four hours, supplemented by the "Pigmy," which flows eleven million gallons during a like period.

In ages long gone, before Clear Lake was; the head waters of the McKenzie river flowed throubh moderately steep mountain valleys; one branch, the north-westernmost, having its origin in "Iron Mountain," the next toward the north, in Crescent Mountain, the third, in the Pyramids its origin in the glaciers of Threefingered Jack. All of these streams flowed uninterruptedly to a union at a point about three quarters of a mile north of the present Clear Lake.

The second lava flow apparently altitude of 2,925, but extended the base of the barrier well up-stream, but the third and last eruption was sudden and violent as is evidenced by the condition of some of the trees which still are standing in the lake, with their side toward Belknap Crater bearing fire marks. This flow effectively dammed the water and preserved the timber so flooded, so effectively that the wood fibers are practically unimpaired during the centuries of submersion.

The largest volume of water came from the glaciers of Three-fingered Jack and as the source of the lava flow came from a point "downstream" and constantly met the waters of the partially melting glacier. The result was that the original water course was utterly obliterated as surface flow, and the present lake which covers an area of about forty acres was formed, with no apparent outlet. The approaches to the valley were precipitous, well wooded and difficult of access, save by the "forestfolk" and so it remained hidden until surveyors invaded it during their preliminary reconnoissance for the "Corvallis & Eastern railroad" in 1881. In 1888 the railroad was located, communicating roads were cut, bridges were built and during the year following, actual construction of grading was instituted, access was made easy and so the valley was "found."

However, the actual work of construction of the railroad was terminated at its present location on the north fork of the Santiam river, the wind eroded the roadbed, the bridges rotted away, trees rotting fell across and blotted out the roadway; the forest reclaimed its own, the handiwork of man perished and again the valley was "hidder" and so it remained when the writer, under skilful guidance penetrated its fastnesses, through devious, tortuous paths and Yound the old construction camps rotting away, with only the gash far up the mountain barrier and had abandoned the enterprise, as superfluous for transportation needs.

Reconstructing the valley as originally constituted, and assuming a uniform hydraulic gradient, reveals that the valley was covered with lava to a depth of 250 feet for the distance of 10,000 feet down stream from the lake outlet. And then to a depth of in exxess of 100 feet, for a distance of 34,-000 feet, a point well below the third lowest falls, where the increased volume of water opposing the onrushing lava flow, produced violent explosions but did not wholly prevent or rather check the flow of the molten mass which finally extended to mountain slopes on the right bank of the

So much for the romance of the formation of Clear Lake and the beautiful waterfalls in the valley below it. It was born in violent travail and has left imperishable records of its birth. clear and distince as when first made Passing now to the off of "

catciysmic conditions may have on ]

(By Captain George S. Edmundstone) the welfare and health of the populaington, at an altitude of three thou and feet above see level lies Clear Lake, the focus of the run-off from ed lava flow, sustaining but stunted timbered, badly shattered lava ter-rain in the "Cascades," all within rain in the "Cascades," all within vious, protected water storage, which need not be encroached upon by commercialized interests, and which miles in length, by an average of a doubtless, the federal and state governments may be induced to preserve from pollution for the health and well-being of inhabitants of the agricultural section. This lava terrain and scattering timber extends from the lake to the junction of the Smith and McKenzie rivers.

Regarding Clear Lake as the source and with no dependence upon the runoff of the stream from the lake out- Grain company, quit work for a few let to Smith river, it is perfectly feas days this week taking care of his ible to develop a minimum daily supply of water in the neighborhood of two hundred million gallons, amply Marcola Thursday. sufficient for the needs of a populainhabitants, served with water whose purity can not be excelled at any place in the entire world.

Of course it would be uneconomic to consider such development at the Mohawk valley, was in on business of fifty-five million gallons of water present time, and conducting water Saturday, dred forty thousand people is all that town on business Saturday. should be undertaken at this time. but, with adequate supply of pure, wholesome water, it is but reasonable to assume a material growth in population, and by setting this water supply aside for the use of the people of Saturday. future generations a far-sighted policy will be inaugurated which will Creek Saturday. assure the walfare of our children who will follow after us.

In addition, it has been definitely and the last, the most easterly, had demonstrated that Clear Lake is susceptible of producing energy to the Wearin of that city. amount of two hundred ten million kilowatt hours delivered anually to carload of cement from Gold Hill low tension buss-bars of a sub-station and a carload of corn from Nebraska to be located in the immediate vicin on Saturday. ity of the city of Eugene, which if all The Lane Cousty Auto company power produced were sold at one cent had an automobile parade of Star per kilowatt hour, would produce a cars through Springfield on Saturday. revenue of two million one hundred Nineteen cars were included in the

installation may be made at lower A band furnished music. unit cost than is possible for any project of equal capacity in this section, Meadowview, was in Saturday for a and that with its water-way constructed entirely, or practically entirely in tunnel, on which maintain- E. Blair, Lowell merchant, was in ence costs would be practically nil.

Now is the opportunity for Willamette valky to grasp the substance and become one of the healthiest, wealthi-States.-Albany Democrat,

### Personals

M. D. Hodge of Newport was a Springfield visitor Thursday.

T. L. Harkins, of Oakridge, was

in Springfield on Thursday. William M. Hunter, miller of the feed plant of the Springfield Mill and sick wife.

Mrs. P. A. Hodges was here from

Arthur Bushman returned Friday tion of a million and three-quarters of night from a two-day trip to Coquille

and Powers on business. L. Hixon of Wendling was in

Springfield Thursday. R. E. Hill, road supervisor from the

Walter Platt of Thurston was in Charles Grant was here from

Thurston Saturday. Charles Taylor of Thurston was a Saturday.

Jess Gates of Camp Creek was here Nick Miers was in from Camp

G. A. Roberts of Marcola was a

Springfield visitor Saturday. William Hucka was in from Walterville Saturday as was also M. J.

Morrison and Clingan unloaded a

thousand dollars per annum. This line, from many surrounding towns.

.T J. Littlejohn, merchant truckload of flour.

Jack Pullen, truck driver for Frank town Saturday for supplies.

The Anderson Manufacturing company shipped a carload of lumber to

California Friday. The Springfield Mill and Grain company shipped a carload of flour

and feed to Coquille Saturday. Joe Clark came home from Portland to spend the week-end. He is an instructor in the Hill Military acad-

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### THRIFT

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We welcoms your trade and this appreciation finds expression in a constant endeavor to make you feel at home and to furnish you with the best possible goods at the most reasonable prices.

So-we solicit your business on the basis of superior service



To Visit Here Soon-Mr. and Mrs. | Hall's Catarri R. E. Yoder and baby Martha are of expected to arrive in Springfield Saturday to visit Mrs. Yoder's parents, Mr. and Mrs. W. M. Green.

G. M. Spague, Mutual Life Insurance Co., Eugene, Ore., Phone 877 tf

rid your system of Catarrh or De F. J. CHENEY & CO., Toledo, Ohio

Springfield News \$1.25 per year.

### Sanitary Meat Market

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# Shall Sharp and Roney be Recalled?

District Attorney Johnston

has been requested to present facts regarding County affairs under adminstration of these men.

Hear him at Woodmen Hall Thursday Evening - 8 o'clock

RECALL COMMITTEE,

Chas. M. Emery, Secretary.

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