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VOL. II

Cottage Grove, Oregon, Friday, July 6, 1900.

NO. 25

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DEPART	Time Schedules	ARRIVE
Chicago-Portland 9:15 a m	Salt Lake, Denver, Ft. Worth, Omaha, Kansas City, St. Louis, Chicago and East.	4 p m
Atlantic Express 9 a m	Salt Lake, Denver, Ft. Worth, Omaha, Kansas City, St. Louis, Chicago and East.	8:45 a m
Spokane Flyer 6 p m	Walla Walla, Lewiston, Spokane, Minneapolis, St. Paul, Duluth, Milwaukee, Chicago and East.	7 a m
8 p m	OCEAN STEAMSHIPS All sailing dates subject to change. For San Francisco—sail every 5 days	4 p m
Daily Ex. Sunday 8 p m	COLUMBIA RIVER STEAMERS	4 p m. Ex. Sunday
Saturday 10 p m	To Astoria and Way-Landings.	
6 a m Ex. Sunday.	WILLAMETTE RIVER Oregon City, Newberg Salem and Way-Landings.	4:30 p m Ex. Sunday
7 a m Tues. Thur. and Sat.	WILLAMETTE AND YAMHILL RIVERS Oregon City, Dayton and Way-Landings.	7:30 p m Mon. Wed. and Fri.
Leave Riparia 3:30 a m Daily	SNAKE RIVER Riparia to Lewiston.	Leave Lewiston Daily 9 a m

W. H. HURLBURT
General Passenger Agent,
Portland, Oregon.

NOTICE FOR PUBLICATION.
Land Office at Roseburg, Oregon
May 8, 1900.
Notice is hereby given that the following-named settler has filed notice of his intention to make final proof in support of his claim, and that said proof will be made before Register and Receiver at Roseburg, Oregon, on June 22, 1900, viz: Eugene E. Finnen, on his H. E. No. 9193 for the SE 1-4 NW 1-4 Lots 5 & 6 & NE 1-4 SW 1-4 Sec. 2, T. 22 S., R. 3 W.
He names the following witnesses to prove his continuous residence upon and cultivation of said land, viz: Alf S. Powell, Isham Burnett, A. H. Powell, J. Taylor, of Cottage Grove, Oregon.
J. T. BRIDGES, Register.

NOTICE FOR PUBLICATION.
United States Land Office, Roseburg, Oregon, June 8, 1900.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada, and Washington Territory," Michael Keibelbeck, of Saginaw, County of Lane, State of Oregon, has this day filed in this office his sworn statement No. 1078 for the purchase of the NE 1-4 of Section No. 14, in Township No. 22 S., Range No. 2 W., and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before the Register and Receiver of this Office at Roseburg, Oregon, on Saturday the 1st day of September, 1900.
He names as witnesses: J. I. Jones, Phil Phillips, Phil Spong, Jack Lewis, of Cottage Grove, Oregon.
Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 1st day of September, 1900.
J. T. BRIDGES, Register.

NOTICE FOR PUBLICATION.
United States Land Office, Roseburg, Ore., June 19, 1900.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada, and Washington Territory," William H. Whitney of Eugene, County of Lane, State of Oregon has this day filed in this office his sworn statement No. 1116, for the purchase of the SE 1-4 of Section No. 8, in Township No. 20 S Range No 1 W, and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before the Register and Receiver of this office at Roseburg, Oregon, on Saturday the 1st day of September, 1900.
He names as witnesses: D. C. Matthews, J. M. Griffith, Oregon, Geo. E. Carr, of Zion, Oregon, Geo. A. Whitney of Eugene, Oregon.
Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 1st day of September, 1900.
J. T. BRIDGES, Register.
Subscribe for the Nugget—all the Bohemia mining news, \$1.00 per year.

MINES MINING.

The Fourth of a Series of Articles on the Geological Construction and the Formation of Mineral Zones.
[CONTRIBUTED.]

The next great division of the Paleozoic area is termed Silurian, after the name of the old British tribe Silures, who lived on the borders of England and Wales, where these rocks are especially well developed. They form a mass of strata which, in some countries, must be many thousand feet thick, like the Cambrian system below, into which they graduate downward.

They consist mainly of greywacks, sandstones, shales and slates; but they are marked by an occasional occurrence of bands of limestone (a rock which from this part of the geological record appears in increasing quantities onwards to recent times.) Taking the fossil of the Silurian system as a whole, we find that they prolong and amplify the peculiar type of life found to characterize the Cambrian system. They include both flora and fauna. The flora however is exceedingly meagre. It consists almost entirely of seaweeds, which occur usually in the form of fucoid, like impressions. The fauna of the Silurian period has been more abundantly preserved than that of the Cambrian and appears to have been more varied and advanced. Among its more simple forms were foraminifera and sponges. The Devonian system, which comes next in order, was named after the county of Devon in England, where they are especially well developed in Europe, and, likewise, in the eastern part of North America. It occurs in two distinct types which bring before us the records of two very different conditions in the geography of these regions during the time when the rocks, composing the system, were being deposited.

The ordinary type which occurs all over the world represents the tracts that were covered by the sea, and has preserved the remains of many forms of marine life of the period. It is to that which the name of Devonian is more particularly applicable. The less frequent type is characterized by thick accumulations of sandstone, flagstone and conglomerates that were laid down in lakes and inland seas and contain distinct assemblage of land and fresh water fossil. This type is known by the name of "OLD RED SANDSTONE."

In their general character the Devonian rocks resemble those of the Silurian system underneath. In Michigan, where they attain a thickness of many thousand feet, their lower divisions consist mainly of sandstones, grits, greywacks, slates and phyllites. These various strata represent the sediments intermittently laid down upon the bottom of the sea, which then covered the greater part of North America. Here and there they include bands of Diabase and Tuff, which show that submarine volcanic eruptions took place during their deposition.

The next great division of the geological record has received the name of Carboniferous, from the beds of coal which form one of its most conspicuous features. The rocks of which it consists reach sometimes a thickness of fully 20,000 feet and contain the chronicle of a remarkable series of geographical changes which succeeded the Devonian period. They include limestones made up, in great part, of corals, crinoids, polyzoa and other calcareous organisms which swarmed in the clearer parts of the sea; sandstones often full of coal streaks and remains of terrestrial plants; dark shales not infrequently charged with vegetation and containing nodules and seams of clay, iron, stone and seams of coal varying from less than an inch to many feet in thickness and generally resting on beds of fireclay. These various strata are disposed in such a way as to afford clear evidence of the physical geography of large areas of the earth's surface during the carboniferous period. The limestones attain a thickness in many places of many thousand feet, with hardly any mixture of sedimentary material.

The most interesting evidence of long continued subsidence during the carboniferous period is furnished by the history of the coal seams. Coal is composed of compressed and mineralized vegetation, and in Pennsylvania each layer of coal is usually underlain by a bed of fireclay, or, at least, of shale, through which roots and rootlets descending from the under surface of the coal seams, branch freely. There can be little doubt that each bed of fireclay is an old soil, while the coal lying upon it represents the matted growth of vegetation which that soil supported; hence the association of a fireclay and a coal seam furnishes distinct evidence of a terrestrial surface. In some coal fields there is evidence that coal has been likewise formed out of matted vegetation which has been swept down by floods and been buried under sand, gravel and other sediment.

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