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VOL. II

Cottage Grove, Oregon, Friday, July 13, 1900.

NO. 26

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NOTARIES * PUBLIC

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1 EF AET Time Schedules

Chicago- Portland * perial 9:15 a m	Salt Lake, Leuver, Ft. Worth, Omaha, Kan- aus City, St. Louis, Chicago and Fast.	4 p.m.
Atlantic Express 9 km Via Hunt- ington	Salt Lake, Denver, Ft. Worth, Omaha, kau- sas City, St. Louis, Chicago and cast.	8:40 n m
Spokane Flyer 6 p m	Walla Walla, Lewis- ton, Spekane, Min- neapolis, St. Paul, 1 uluth, Milwankee, Chicago and East,	7 a.m.
8 h m	CETAN STRANSHIPS All smiling dates subject to change. For San Francis: Sall every Adays	4 p m
Daily Ex. Sunday S p m Saturday 10 p m	Columnia River STELMERS To Astoria and Way- Landings.	4 p. m Ex. sund'y
6 a m Ex. Sunday.	WILLAMETTE RIVER Oregon City, Newberg Salem and Way-Land- ings.	4:30 p m Ex. Sand'y
7 a m Tues, Thur, and Sat.	WILLAMSTIF AND YANGILL SIVESS Oreson City, Dayton and Way-Landings.	3:30 pm Mon. Wed. and Fri.
Leave Riparla 3:35 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 follow-

ing-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: Engene E. Finnen, on his H. E. No. 9193 for the SE 1-4 NW 1-4 Lots 5 & 6 & NE 1-4 SW I-4 Sec. 2, T. 22 S., R. 3 W. quest. He names the following witnesses to on or prove his continuous residence upon and 1900,

cultivation of said land, viz:
Ali S. Powell, Isliam Burnett, A. H.
Powell, J. Taylor, of Cottage Grove, J. T. BRIDGES, Register.

NOTICE FOR PUBLICATION.

United States Land Office, Roseburg, Oregon, June 8, 1900. hereby given that in com-Notice is pliance with the provisions of the act of Congress of Jane 3, 1878, entitled "An act for the sale of timber lands in the States of California, Or gon, Novada, and Washington Territory," Michael Kebetbeck, of Saginaw, County of Laue, State of Oregon, has this day filed in this office his sworn statement No. 1078 for the purchase of the NE 1-4 of Sec-tion 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 Rose-burg, 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. Bardes, 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 8 Range No 1 W, and will offer proof to show that the land sought is more valuable for its timber or ston; than for agricultural purposes, and to establish his claim to United States Land Office, purposes, and to establish his claim to said land before the Register and Receiver of this office at Roseburg, Ore-gon, on Saturday the 1st day of Septem-ber, 1900.

He names as witnesses:
D. C. Matthews, J. M. Griffith.
Oregon, Geo. E. Carr, of Zion, Oregon,
Geo. A. Whitney of Engene, 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,

Register.

Subscribe for the Nugget-all the Bohemia mining news, \$1.50 per year.

The Fifth of a Series of Articles on the Geological Construction and Formation of

Mineral Zones. [CONTRIBUTED.]

The prolonged subsidence during which the coal measures were accumulated were at last brought to an end by a series of great terrestrial disturbances, whereby the lagoons and coal-growing swamps were in a great measure effaced from the geography of the earth. So abrupt in some regions is the discordance between the coal measures and the next series of strata that geologists have naturally been led to regard this rock as one of great chronological importance, serving as the boundary between two distinct systems; nevertheless, so far as the evidence of fossils go, there is no such interruption of the geological record as might be supposed from this stratigraphical unconformability, many of the carboniferous types having survived the terrestrial disturbances.

To the various rocks of the system the name of Permian was given, from the Russian province of Perm, where they are well developed. They consist of red sandstone, marles, conglomerats and breccias, with limestone and dolomites. The sandstones are usually bright brick red in color, owing to the presence of earthly peroxide of iron, which serves to cement the particles of sand together. The shales or marles are colored by the same pigment. So characteristic is this red color of the rocks that they form part of a great series of strata originally known as NEW RED SANDSTONE.

Volcanic action showed itself during the Permian period in many parts of the world, but with less activity than during the carboniferous period. The great series of red strata heretofore mentioned as overlaying the carboniferous system was called the New Red Sandstone, to distinguish it from the Old Red Sandstone which underlies that system; but the progress of geology on the European and North American continents eventually proved that, notwithstanding their general similarity of lithological character, two series of rocks had been comprised under the general title of New Red Sandstone, The older of these, separated from the rest under the name of Permian, was placed at the top of the great succession of Palaozoic formations. The younger division was called Trias, and was regarded as the first system in the great Mesozoic or secondary succession.

When we ascend into the Trias, though the physical conditions of depositions are much the same as in Permian time, we meet with a decided contrast in the organic remains. A new and more advanced phase of development presents itself in that richer and more varied assemblage of plant and animal life which characterized Mesozoic or secondary time. The word Trias has reference to the marked three-fold division of the rocks of this system. They consist of bright red sandstones and marles or clays, with beds of gypsom, anhydrite, rock salt, dolomite and limestone. These rocks, so closely resembling the Permian series below, had evidently a similar origin.

The system which follows the Trias has received the name of Jurasic, from the Jura mountains, where it is well developed. It contains the record of a great series of geographical changes, which entirely effaced the inland basins and sandy wastes of the previous period.

The flora of the Jurasic period is marked by the same general haracter as that of the Trias, ferns, conifers and cycads being its dire tinguishing elements. Cycads now abound, and here we find the first evidence of our pines and firs. This vegetation flourished luxuriantly over a vast area, which grew so densely as to give rise to thick peaty accumulations which now form beds of coal. It went far northward, for its remains have been abundantly preserved in Spitzbergen, where a number of cycads have been found among them. These plants unquestionably grew and flourished within the Arctic circle, so that, though the climate of the globe was already beginning to immerge from the greater uniformity of Palaozoic time, the Arctic regions still enjoyed a temperature like that of subtropical countries at the present time.

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