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VOL．II
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# 8 

[^0]Oregon，Friday，July
$13,1900$.
NO． 26

## MINES Se MINING．

The Fifth of a Series of Articles on the Geo－
logical Construction and Formation of Mineral Zones．
［conthibuted．］
The prolonged subsidence during which the coal measures were accumulated were at last brought to an end by a series of great terres－ thal 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 clironological importance，serving as the boundary between two distinct systems；nevertheless，so far as the evi dence 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 varions 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 ssand together．The shales or marles are colored by the same pigment．Su characteristic is this red color of the rocks that they form part of a great séries of strata originally known as VED 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 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 irr Permian time，we meet with a de－ cided 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 con－ tains the record of a great series of geographical changes，which entirely efficed the inland basins and sandy wastes of the previous period．
The flora of the Jurasic period is marked by the same

The flora of the Jurasic period is marked by the same general character as that of the Trias，ferns，conifers and cycads being its diz－ tinguishing elements．Cycads now abound，and here we find the first evidence of our pines and firs．This vegetation flourished luxuriantly 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 un－ questionably 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 Aretic regions still enjoyed a temperature like that of subtropical countries at the present time．
WAS IT A MIRACLE？
＂The marvellous cure of Mrs．ANEPIDEMIC OF DIARRHOEA ＂The marvellous cure of Mrs．
Rena J．Stout of Cousumption has created intense excitement in Cam－Cocoanut Grove，Fla，says frem wack，Ind．＂writes Marion Stuart， hasea there．He had a severe at－ a leading druggist of Muncie，Ind．
Shie only weighed oo pounds when
thack and was cured by a four doses of She only weighed oo pounds when Chamberlain＇s Colic，Cholera and
her doctor in Yorktown said she
Diarrhoea Remedy．He says he her doctor in Yorktown said she Diarrhoea Remedy．He says he
must scon die．Then she began to
also recommended it to others and must scon die．Then she began to also recommended it to others and
use Dr．King＇s New Discovery and
they say it is the best medicine use Dr．King sew iscovery and they say it is the best medicine
gained 37 pounds in weight and
was completely cured．＂It has
they ever used．For sale by Bes－
son DrUG Co．，Cottage Grove． $\begin{array}{ll}\text { cured thousands of hopeless cases，} & \text { son DRUG Co．，Cottage Grove．} \\ \text { Lyons \＆ApPL，EGATR，Drain Drug－}\end{array}$ and is positively guaranteed to cure
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