

THE GAZETTE.

Issued Every Friday Morning by CONOVER & KITSON. SUBSCRIPTION RATES: Per Year, \$2.00; Six Months, \$1.00; Three Months, .75; Single Copies, 10c; Per Year, (when not paid in advance), 2.50.

Entered at the Post Office at Corvallis, Oregon, as second class matter.

RIGHT OR WRONG.

Complaint is made by visiting sportsmen concerning the stringency of the game trespass laws of Oregon and the question presents itself: Which is the best? Shall we Tom, Dick and Harry, no matter from whence they come, be permitted to ride at will and without restriction over the possessions of our farmers and ranchers and the birds and other wild game thereon be watonly slaughtered, etc., or shall those whose interests are dependent upon the resources of their various farms be protected as the language of the law prescribes? We are not sitting in judgment, but ask that if the law is right should it not be sustained? If wrong, repeal it.

Section 1. It shall be unlawful for any person, other than an officer on lawful business, being armed with a gun, pistol or other firearm, to go or trespass upon any enclosed premises or lands without the consent of the owner or possessor thereof. Section 2. It shall be unlawful for any person to shoot upon or from the public highways. Section 3. It shall be unlawful for any person, being armed with a gun or other firearm, to cause, permit or suffer the accompanying such person, to go or enter upon any enclosed premises without the consent of the owner or possessor thereof; provided that this section shall not apply to dogs in pursuit of deer or varmint. Section 4. Any person violating the provisions of this act shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine not less than \$15 nor more than \$50, and in default of the payment of the fine imposed shall be committed to the county jail of the county in which the offense is committed, one day for every \$2 of the said fine. Section 5. Justices of the peace for the proper county shall have jurisdiction of the trial of offenses herein defined.

WE FURNISH OUR readers the report of W. T. Branch, the bank expert, who completed his labors in connection with the examination of records in the Hamilton, Job & Co. banking institution of this city. The report was given to an advisory committee composed wholly of interested depositors, by whom it was unanimously adopted. The report shows that there were no evidences of fraud to be found within the archives of the bank, and the only cause for criticism was the loose manner in which the Job brothers conducted their affairs. From this report we glean the opinion that there was no intention of wrong doing on the part of the brothers and that their failure was due wholly to the stringency of the money market and to mismanagement.

Ex-Speaker Thos. B. Reed spoke to a large audience in Cleveland, Ohio, for nearly an hour, Monday of last week. He declared that the democratic party succeeded in bringing about the closing of factories and mills, something they could not do with the senate. The senate, he said, is elected to govern the people, yet it could only give the people a test of physical endurance, the greatest thing it has done being to remain in session for thirty-nine hours.

HERE is the approach toward a two-minute gait during twenty years; 1874, Goldsmith Maid 1:15; 1883, Jay-Eye-See, 2:10; Maud S., 2:08; 1891, Sunol, 2:08; 1892, Nancy Hanks, 2:04. This latter time has not been equaled thus far, but there is no doubt but that a two-minute gait will be realized before many seasons have elapsed.

UNDER the free trade party's idea of new tariff the price of sugar will be increased 25 or 30 per cent., also their tea and coffee. This addition to the household expenses, coming at the same time as a reduction in wages of 10 or 25 per cent., will be sorely felt.

THE Ohoctaw Indians should now be considered thoroughly civilized, their treasurer having "skipped," leaving a shortage of something like \$100,000. Considering the amount he had to handle no Chicago, New York or Seattle man could have made a heavier haul.

SAYS the New York Recorder: "The democratic party has been in full control of the government for nearly eight months. What has it done? Nothing. What is it going to do? Nobody knows. It doesn't know itself. What does it propose to do? Nothing."

THE federal election laws never put a dishonest vote in a ballot box, and never kept an honest one out. Is that why the south and Tammany want them repealed?

FREE soup houses will run on full time when we get free trade, says an exchange.

THE OLDER COAST RANGES.

With More Recent Geological Formations in Benton County.

BY JOHN RAY.

[Continued from Last Week.]

REVIEW.

We have tried in the above to give a faithful description of the rocks as we have seen them. A few further points may be suggested. Taking the Vineyard-Kings Valley ranges, they stand quite apart from more recent formations. An excellent example is found in the Osburn hill, where, standing alone, its base runs sweeping out as the oak, where it sinks under the base of a low Eocene hill.

It is, too, at this junction of the older and more recent formations where so much igneous action has taken place. Where it runs entirely around the oldest system, up the flanks considerably, and also where recent formations are somewhat contiguous, they have met the same fate. How near the Miocene comes to the older formation we do not know exactly, but from Summit to Yaquina there is comparatively little igneous action visible. There is a dike going up to Rock Creek, there is another at Pioneer, a little horizontal intrusion in the shales about Porter's, but as compared with the older formations it is as nothing. Then, again, its schistose trap taken from those places bear no resemblance to similar material east. It is like its hills, very common.

There is, too, every reason to believe that the metamorphism, such as it is, in the Kings Valley field, took place prior to the igneous operations subsequent to the rise of the Eocene deposits. Where this action has taken place it has been violent, but the quiet and easy change in the flags and shales of the older rocks does not exhibit this violence. Then again, with the exception of the little strata remaining upon the flanks of the older hills, they seem to be a solid body of metamorphic rock, and further, that the material with which this strata at the base is composed, is from the debris of the older strata above, breccia, flag and shale show this in a new arrangement of older material, and in the coarseness of grain not found in more recent or distant deposits.

Another feature in the Kings Valley field is when the sediment composing the strata at the base of the hill was deposited it must have been in fresh water, for there is no sign of marine life. There is a leaf or two and creeping things have left portions of their bodies, birds and small animals their footprints upon the soft shale. The more curious too, it is, when we remember the west face stands overlooking the Pacific Ocean. But when we look at the deposits of the Eocene as well as Miocene which have been laid down and largely from this older land, we may try to imagine if we can the former greatness of this formation and the great change which must have taken place, but all we can now find or see is the skeleton of what was.

At the Vineyard field, things seem more natural and with the opening in the range previously mentioned the sea could sweep in, up and down the valley, the bed of marl deposited, and molluscan life in highest enjoyment in the shelter there existing.

In a bulletin published by the Geological Survey, Washington, 1886, "Notes on the Geology of Northern California," by I. S. Diller, who says, "The distribution of the rocks of the Chico group clearly indicates that during the Chico epoch the northwestern portion of California, with the adjacent part of Oregon, embracing the Trinity, Salmon, Scott, Siskiyou and other mountain ranges of the Coast Range, was a large island, separated from the still larger continental land mass of the same strata in the Great Basin and Sierra region by a wide strait now bridged over by the Lassen's Peak volcanic ridge;" and again, "South of the Rogue river valley the cretaceous island lay completely west of the position now occupied by the Cascade Range. To the northward its extension is but partially known."

The heavy body of black clay mentioned on the Foster place is just such material as is found in the marsh land by Toledo. The fossil wood and Terredos with Corbiculas just above and the fossil ostra in the higher sandy clay stone show the estuarine conditions. Higher in the formation a Zirphaia was obtained with other fossils unlike those found near Corvallis. With a condition such as we have here, viz. brackish water, land must have been to the west of it to furnish fresh water sufficient to modify the briny water from the ocean. Giving us this barrier to the ocean, the older Coast Ranges, this condition is met and cannot be met otherwise, for up to this time the Miocene uplift had not taken place.

Another problem also seems to be solved, namely, why or how it is that at a distance of ten miles or more from Corvallis, strata of a lower horizon is found? The opening in the old Coast Range at Philomath permitting the tidal waters of the ocean to come in, we find right east of this Scott's hill, in the path of the channel, heavy bedded sandstones over 200 feet deep below the level of the valley. Even in grain though alternating in shade. This is not the condition in Estuary waters, but rather thin bedded strata with fragments of leaves and wood, the stone partaking more of clay than of sand, and that, in our case, the thin bedded and clayey strata were laid down previous to the heavier bedded sandstones.

Much curiosity has been manifested from time to time as to these deposits, particularly so as they are found so near the surface and nothing resembling them in or about the same to give cause for their being there. Mention has been made of the residual clay at Vineyard's

which is the decomposed metamorphic rock containing hornblende or pyroxene. These minerals containing iron give or stain the clay red or chocolate brown, which is the color of the clay, on the upper portion of the hill. According to eminent authority this disintegration has taken long time to effect. Then taking into consideration the Hematite pebbles in the conglomerate, besides which a large body of brick-red crystalline Siderite is found in this formation. It will not be difficult to imagine that in the course of time a body of such decomposed material lay on the hill side and was swept off by heavy rains.

Age of Older Formation. In naming the strata of a formation or period the science of geology exacts evidence of animal or vegetable life existing during the formation of such strata, in the shape of fossils. This, unfortunately, we have not in this shape or condition suitable for use in this way; the reason for this will be seen when looking at a situation which existed and which almost obliterated everything of this kind. It is true we have a few fragments, but many fragments may not make one fossil, no more than one complete fossil would be sufficient to determine the age of a formation. In this emergency we turn to Mr. Becker, who, while not approving of age determination by the appearance of rocks, suggests "In California great use can be made of resemblance."

This suggestion is forced through the difficulties, encountered in the similarity in the California formations and the lack of fossils such as we meet here. But he further maintains "So far as is known, therefore, no beds in the Coast ranges of California younger than the Knoxville group have experienced the peculiar magnesian and silicious metamorphism so characteristic of these ranges."

Besides the resemblance in metamorphic rock another similarity exists between the older Tertiary and Cretaceous formations in California and our own. In California, the strata of these groups lay in and east of the older Coast Ranges. This is precisely as we find it here, and so, no doubt, it runs in this manner wherever found, from California to Canada.

Therefore, with the exception of the Breccia at Vineyard's, the strata at Kings Valley show they are composed of the older material above them. We have a piece of dolomite attached to the Residual clay, similar to what is in the grits and conglomerates at King's Valley, and that this strata has again been broken up into small fragments which have made up the next lowest strata in the Valley, which, as found, is of spots of two shades of green, yellow, brown, light drab and white, with brilliant green sand occasionally. This material is too large to have been long in the water, or had much scouring before being deposited. We have, then, with our fragments of fossils our more perfect fossils of recent Cretaceous Eocene and Miocene formations, the metamorphic with dolomite attached with other material showing a close relationship to the latter. With these we have every reason to believe that the geological formations in this county are not much different to the Older Coast Ranges of California, as well as the Chico-Tejon in close proximity thereto, and that these older Ranges will doubtless be where Mr. Becker places them, between Jurassic and Cretaceous.

It is not to be understood that the geological formations given in this paper are confined to Benton county, for, while the writer has not visited other counties in the Valley, fossils sent to him from Polk county (south of Independence) are undoubtedly more Cretaceous than any yet found in Benton. But our object was and has been to rescue, if possible, these grand Ranges from the pretentious but rickety elevations of Miocene time. To restore the title belonging to them which has been ruthlessly given to their less deserving neighbors. How he may have succeeded those learned in the science of geology will best be able to determine, but he is conscious of this, that the opinions formed have not been hastily adopted, but the result of extended examinations and study. If our object has been accomplished the knowledge of which will be a sufficient reward.

THE GLACIAL DRIFT.

Another feature of geological interest in this part of the Willamette Valley is the many large blocks or boulders found scattered here and there in the valley, but more generally near the base of the hills west of the river. These rocks are of foreign origin, and so far as known to the writer, but little attention has been given them publicly. They are also mementoes of the glacial period—monuments marking the stranding or wreck of the vehicle which conveyed them during the movement of the Drift. Then, too, with other material brought and deposited during this period, of the leveling and smoothing and the changes wrought, was of the greatest utility to Agriculture, and toward the fame this valley has obtained. It is then of these tramp rocks and other deposits at the time, we give a brief description, aided by observations in other fields in days ago.

Drift Material.

In the great fields of drift material covering the larger portion of Northern United States there will naturally be some diversity in the material of those fields, first, through distance from native bed to final deposit, and second, distance longitudinally, furnishing a change in the kind of rock, but the agency used in conveyance doubtless will be the same. The material here so far as known is gravel, loam and boulders. The gravel contains a variety of rock such as granite, Jasper and other metamorphic rocks, together with a variety of ancient igneous rock. The gravel runs into boulders, well rounded, fairly smooth whether taken from the river bed or from beneath its somewhat heavy cover in the valley.

The loam is a lightish yellow or buff, though a shade darker and heavier than similar material in Nebraska. Among the large blocks or boulders we have granite, porphyry, quartzite grey, light and dark red and purplish, with heavy deposits of slate rock. In some of these deposits more beautiful and valuable stone is found such as lumps of ribbed chalcodony and richly variegated green stones may be gathered.

A Nebraska Field.

For the purpose of getting a more correct understanding of the drift deposits we gather from another field the position of the several varieties of material as they were deposited and which, in general character, will obtain throughout the period.

In eastern Nebraska upon the cretaceous floor drift material is found resting thereon amounting to eighty or one hundred feet in depth as follows: At the base, a hard and tough variegated clay in which is slightly mingled gravel and boulders. Upon this clay is found a bed of fine quartz gravel about two feet deep, size of gravel a little less than one quarter inch cube, and each grain or gravel apparently of the same size and weight, showing that not only this bed but beds above were conveyed by water and that the determining cause of deposit at that place was the strength of the current at the time and size or weight of pebble.

Above the quartz gravel is a bed of coarse, rusty sand followed by a less coarse bed of clean grain, topped with a bed of sand of finest particles. Each of these beds is well defined by clear level lines, running across the face of deposit. Upon this bed of fine sand rests the rich buff loam to a depth of seventy-five feet or more. While this loam varies in shade or color a little, there is small difference from top to bottom in quality as to fineness or richness. Not a pebble the size of a pea is found in it and though we travel scores of miles, excepting in the bed of the deep ravines, which time has cut through and down to the boulder clay, not a stone is to be found. One exception to this rule was found in this field but it was the only one known to the writer as follows: In one of those ravines and near the top of the sloping bank a large slab of red quartzite lay with a few small pieces, corners straight and sharp as when riven from its native bed. This slab as it lay was sloping with the bank and evidently when deposited had been upon the surface of the loam after it had become hard enough to sustain its weight; subsequent erosion forming the ravine had permitted its sliding from its original position. From the above we gather the method of the various deposits of the drift. First, boulder clay, second, very fine gravel, followed by beds each one finer than the preceding till we reach the top, when it is capped by large and small angular rock belonging to the earliest of days. Each one of those beds gave indication that there was time between each deposit, that is, each one had become settled so that a subsequent deposit rested fairly upon the bed immediately beneath it, and without mixing with each other.

In The Valley.

While we have not the number or variety of drift deposits as mentioned above, what we have will be found to have been deposited in the same order. Here we have as yet seen no boulder clay but we have in its place a much heavier deposit of gravel resting upon Eocene strata. This gravel is found in the bed of the Willamette river. It is covered by loam and soil in the valley near Corvallis about twenty feet. Fifteen miles south it comes to the surface and covers many acres of land. The same gravel is used for our streets and roads instead of broken rock. Where the gravel is covered by a subsequent deposit of sufficient depth it will be found to be loam, topped with darker soil.

BABY RUNNING SORE

Worst Sight Ever Seen. Legs, Hands, Arms, Body One Solid, Deep, Running Sore. Began Using Cuticura. In Two Weeks Great Improvement Followed by a Complete Cure.

My child began to be sore when two months old—Eczema on his face and head. It rapidly spread over all his body. Every one who saw him said he was the worst I ever saw. He had to be washed with soap and water. His little legs, hands, and arms were just one solid deep running sore. He was sore all over, but the deepest sores were on his arms, legs, and face. His face and ears had great deep cracks in the flesh, and were swollen so that he did not look like a child. His worst sore I have ever seen of the kind. We began using the CUTICURA REMEDY, and in two weeks we could see a great improvement, and now he is completely cured. His skin is smooth and white, and he seems entirely well. (Portraits included.) We are so thankful. I would like to tell everyone who has a suffering baby about CUTICURA. Mrs. FRED. BARRETT, Winsford, Ingham County, Mich.

CUTICURA WORKS WONDERS

CUTICURA REMEDY has effected the most wonderful cures of torturing and disgusting skin and scalp diseases of infants and children ever recorded. They afford instant relief, purify, soothe and sleep, and point to a speedy cure, when the best physicians fail. Parents save your children years of agony and suffering. Cures made in childhood are permanent. Sold throughout the world. Price, CUTICURA, 50c.; Soap, 25c.; Essentive, 50c. FORTY DROPS AND CURS. CONR., Sole Proprietors, Boston. "How to Cure Skin Diseases," mailed free.

WOMEN FULL OF PAIN

Find in Cuticura Anti-Pain Plaster Instant and Gentle Relief. It is the best and most reliable pain-killing, strengthening plaster.

In other places farmers have either sunk them beneath the soil or carted them away.

A question here forces itself upon us; it is, from whence and how was this material brought here? One may readily answer, ice and water, as given us by our text books, but do these materials not suggest themselves their mode of conveyance? It is scarcely possible for us to imagine the vast field of loam in Nebraska to have been carried in any other way than by water. So, too, the quartz, gravel and the different beds of sand, so carefully assorted as to size and weight, could scarcely be so delicately arranged by other than water. But when we come to the gravel and boulders, and blocks or boulders, many of them of great weight, we cannot rest with water, but some other carrying machine resting in or upon the water is necessary. Nature has given us ice fields and bergs, floating upon the waters as ships upon the sea. These were the vessels, our gravel and boulders and larger material the cargo. The gravel and small boulders were picked up in the bays or on the seashore, where they have been rolled about for ages by the dashing waters. The slabs of rock which we have called blocks or boulders have been torn from their bed in some cases, for in one case near here some years ago, there was found a line of granite in blocks stretching over 100 feet in length. By its side was a string of blocks of slate of equal length, close together, with quartzite scattered here and there alongside. These lay in the ground as pavement and apparently deposited as they were taken from their place of deposit.

As to where this material came from we do not know exactly, but the course of the continental drift has been from the north, southward. It must be so in this case, for to the south and to the east and west we have high elevations, which from the low location of this material in the valley would forbid other direction than from the north. As well, so far as known, no rock of such antiquity is found in western Oregon. In Nebraska the nearest location of such rock is several hundred miles away, but the conditions here suggest a nearer place, probably, western Washington.

The position in which these large rocks are found suggests a slow and quiet deposit. They also suggest that this was the latest and last effort of the glacial epoch. It is to be hoped that some of the finer and larger blocks will be preserved, for as time wings its way and population becomes larger, with few of these monuments remaining, those preserved will be of no little value to the student of the future.

The Willamette valley presents to the professional or amateur geologist a rare field for examination and study.

The Minneapolis Tribune asks, "Is sugar to be taxed?" The democratic New York Sun answers as follows: "Of course it is, unless the democratic platform is trampled under foot by its authors and advocates."

AYER'S SARSAPARILLA. PURE BLOOD, CURE FOR SKIN DISEASES, MENTAL ENERGY, SOUND SLEEP, LONG LIFE, STRONG NERVES.

S. P. SMITH, of Towanda, Pa., whose constitution was completely broken down, is cured by Ayer's Sarsaparilla. He writes: "For eight years, I was, most of the time, a great sufferer from constipation, kidney trouble, and indigestion, so that my constitution seemed to be completely broken down. I was induced to try Ayer's Sarsaparilla, and took nearly seven bottles, with such excellent results that my stomach, bowels, and kidneys are in perfect condition, and, in all their functions, as regular as clock-work. At the time I began taking Ayer's Sarsaparilla, my weight was only 120 pounds; I now can brag of 150 pounds, and was never in so good health. If you could see me before and after using, you would want me for a traveling advertisement. I believe this preparation of Sarsaparilla to be the best in the market to-day."

Ayer's Sarsaparilla. Prepared by Dr. J. C. Ayer & Co., Lowell, Mass. Cures others, will cure you.

W. L. DOUGLAS'S \$3 SHOE. Do you wear them? When next in need try a pair. Best in the world.

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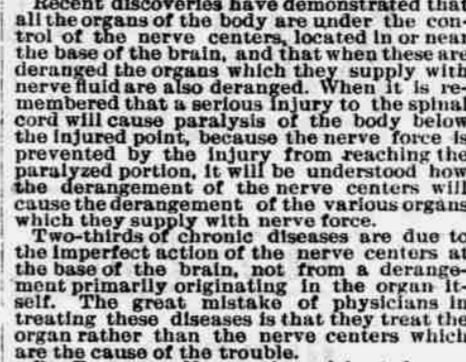
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MYSTERIES! The Nervous System the Seat of Life and Mind. Recent Wonderful Discoveries.

No mystery has ever compared with that of human life. It has been the leading subject of professional research and study in all ages. But notwithstanding this fact it is not generally known that the seat of the nervous system is located in the upper part of the spinal cord, near the base of the brain. It is so sensitive that a slight injury to this portion of the nervous system that even the prick of a needle will cause instant death. Recent discoveries have demonstrated that all the organs of the body are under the control of the nerve centers, located in or near the base of the brain, and that when these are deranged the organs which they supply with nerve fluid are also deranged. When it is remembered that a serious injury to the spinal cord will cause paralysis of the body below the injured point, and that the ordinary cold is prevented by the injury from reaching the paralyzed portion, it will be understood how the derangement of the nerve centers will cause the derangement of the various organs which they supply with nerve force. Two-thirds of chronic diseases are due to the imperfect action of the nerve centers in treating these diseases is that they treat the organ rather than the nerve centers which are the cause of the trouble. Dr. FRANKLIN MITES, the celebrated specialist, has profoundly studied this subject for over 20 years, and has made many important discoveries in connection with it, chief among them being the facts contained in the above statement, and that the ordinary methods of treatment are wrong. All headache, dizziness, dullness, confusion, pressure, blues, mania, melancholy, insanity, epilepsy, St. Vitus dance, etc., are nervous diseases no matter how caused. The wonderful success of Dr. Mites' Restorative Nerveine is due to the fact that it is based on the foregoing principle. Dr. Mites' Restorative Nerveine is sold by all druggists on a positive guarantee, or sent direct by Dr. Mites Medical Co., Elkhardt, Ind., on receipt of price, \$1 per bottle. All bottles for \$5, express prepaid. It contains neither opiates nor dangerous drugs.



Dr. SANDEN'S ELECTRIC BELT. With Electric Currents. Latest Patent. Best Improvement. Will cure without medicine all Weakness resulting from over-exhaustion of brain, nervous force, excessive indulgence, as nervous debility, sleeplessness, languor, rheumatism, kidney troubles, all female complaints, general ill health, etc. This electric belt contains a powerful magnet over all organs. Currents are made to pass by means of this magnet over the entire body, and will cure all the above diseases or no pay. Those who have been cured by this marvelous invention after all other remedies failed, and who give hundreds of testimonials in this and every other city, send for a copy of our Powerful ELECTRIC SUSCEPTOR, the latest and best of its kind, and will cure all the above diseases, Health and Vigor Strength QUALIFIED TO GO TO 40 CENTS. Send for it, and you will be cured. DR. SANDEN ELECTRIC CO., No. 179 First Street, PORTLAND OREGON.

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