

WATERPOUTS ON DRY LAND.

Prof. Kerr, State Geologist, writes the following interesting article to the Raleigh Farmer and Mechanic:

"When I first reported, ten years ago, the occurrence of waterpouts in the mountains of the Western part of North Carolina, the statement was received with incredulity, and Webster was quoted on me to prove that this was an ocean phenomenon, and the absence of all mention in books of waterpouts on land was considered confirmatory to Webster.

Waterpouts do not often occur in our mountains, but occasionally show themselves in great numbers. Mr. Silas McDowell, of Macon county, first described an occurrence of this sort some twenty-five years ago. He visited and examined the tracks of thirteen which fell at the same time from the same cloud in Clay county.

The smallest of these tracks measured 13 feet and the largest 60 feet in breadth. Dr. Moore, of Franklin, who also visited the locality counted over 100, and estimated that there were about 50 more. These fell close together on Ely's Creek and Pine Creek Mountain, near Hiwassee River, and within a few miles of Fort Herbarie (Hayesville).

A week ago, being in the vicinity of the track of one of the largest waterpouts on record, in Macon county, I went aside to see this great sight. Any one passing along the turnpike which follows down the valley of the Tennessee River from the Blue Ridge, on looking eastward, when about 10 miles from Franklin, would notice, at a distance of four or five miles, on the face of the mountain which walls in the valley in that direction, a straight, wide scar or furrow running sheer down from a point just under the summit, until lost to view behind the foothills of the plain. I think it must be visible from the tops of the Nantehala Mountains twenty miles away, on the opposite side of the valley.

The semi-circular wall of mountains about this upper valley of the Tennessee rises to the height of about 5,000 feet, the Nantehala on the west passing this elevation in its highest peaks by several hundred feet; the Blue Ridge also sending up a few knobs on the south to slightly greater elevation, and the Cowee Range on the east only reaching this level in a few of its most conspicuous summits. The Fish Hawk Mountain is the highest point of a partial cross-range which is thrust out northward from the Blue Ridge about ten miles into the valley of the Tennessee, occupying the angle between that river and its largest tributary, the Clinch and Sugar Creeks, which enters from the east. This Fish Hawk Mountain is 4,749 feet high, and Mr. Conley, at its base on Tennessee Creek, is 2,240; (see tables from G. Zott.) The mass of the mountain is solid granite, (gneiss properly speaking), stratified, contorted, banded, of various colors, gray of various shades, and black, when a horn-blende ledge comes in as frequently. This mountain of rock is covered with a thin skin or film of stony earth, from a few inches to 10 or 15 feet except on the summit and along the steeper cliffs and escarpments of harder rocks, and is clothed with a heavy forest growth of oak, chestnut and shrubbery. The slope of the summit of the mountain, especially towards the top, is very steep, so that walking is difficult, and stones displaced by the foot, roll on down before one.

The waterpout in question struck the western face of the mountain 350 feet below the summit, at a point where the declivity of the surface shows a descent of about 70 feet in a hundred. The slope varied from 40 to 60 degrees the first half mile, and gradually became less, giving an average of about 20 degrees for the whole descent of about a mile to the foot of the steep escarpment, the total vertical descent being 1,800 feet in that distance. The scar or furrow at its upper limit presents a nearly semi-circular outline, the diameter being over 70 feet, and the wall of earth at the upper side of the basin being 15 feet deep and gradually diminishing to 4 or 5 feet at the distance of 50 feet down the slope. The earth (and loose stones and trees) was removed down to the solid rock floor. Following down the track of the torrent one sees within a hundred yards evidences that

it was rapidly converted into an avalanche of mud, stones and drifting timber. A fragment of a large log, or tree whose base was protected by a shelving rock, was standing in the middle of this track, broken off at the height of about 20 feet. The bark was torn completely on to a height of 10 feet, and split to shreds above that; and 7 feet above the split trunk it was gnawed and splintered by the strokes of angular stones hurled against it, and the wounds are still filled with mud. Of course it was semi-fluid, and a valanche of mud and stones to that height. Along the margin of the track, which was wide and contracted, according to the surface over which it passed, the trees were often peeled, to 10 and 20 feet high, by the trashing of the projecting tops and branches of the trees whose trunks were hurled down in the torrent. An occasional tree is left standing a few feet within the path of the flood, when it was 100 feet wide and shallowed near the margin in such cases the trunk is dead, peeled fifty or fifty feet high, even the branches being backed quite to the top, and the whole had been borne down by the torrent, and had sprung back after it passed.

As already stated, the bare floor of rock is exposed throughout the whole mile of the track, 50 to 100 feet wide, and the surface, even over the most rugged edges of cliffs, and over the hardest ledges is polished like a mirror by the rushing mass of water, some of them weighing 10 to 20 tons, making the descent by this way very difficult and unmanageable. But it furnishes one of the finest rock studies to be found. Photographs of the lignation, contortion, faulting, and veining of the gneissic ledges down this ravine might be obtained by the score which would surpass anything in the books of geology on the subject. Of course the avalanche although it started on the south slope of the mountain did not travel far before it found a depression or head of a ravine, and being compelled to follow the curvatures of this notch, it performed some singular evolutions. For example, when the steep ravine sheered sharply to the right at an angle of 40 degrees, the inertia of driving mass carried it straight forward, and up the concave mountain wall to the left fifty feet, while on the right it was not more than 80 feet actually presenting a slope to the right of the transverse section, amounting to 20 degrees, and when the next turn was made to the left, the avalanche climbed the right bank in the same way; and these curves are all marked by great drifts of timber thrown off by the centrifugal sweep of the flood, which still stands to an average height of 10 to 15 feet above their bed.

It is a question of much interest and importance, how much water fell in a mass, at the summit. I make 1,000 to 1,000 tons. It was evident enough that the column, whatever its height was, much less than 70 feet in diameter. It was probably much less than half that, and need not have been more than 10 or 20 feet, the wide semi-circular basin being scooped out by the resistance of the water. It was also evident that the volume of the mass was rapidly augmented by the accumulated earth, stones and timber swept along with it. A simple calculation shows that more than 500 tons of earth, &c., was removed from the basin of the point of impact, and at least 10,000 tons from the first mile of its descent, to which must be added more than 500 tons of timber, or about 2,000 tons of timber. And a very moderate estimate of the mass which entered the plain at the distance of two miles from the starting point, gives 20,000 tons.

It is described by Mr. Conley, who watched with alarm the resistless rush of the avalanche as it swept directly towards his house, presenting in front a wall ten feet high and nearly 100 yards wide, with a swirling, surging, and a booming sound coming to Dunsmuir's and abated into Tennessee Creek, which had already swollen to a torrent by a heavy dry rain, swept by his door not 50 yards distant. The course of the stream being directly transverse to that of the avalanche, arrested and deflected its current, and distributed its materials for more than a mile down the valley in great masses of drift, almost ruining several plantations. Nothing but the flood in the Creek, which had passed all precedent which had fallen nearer and entered higher up the stream, saved Mr. C.'s house from utter obliteration. Hearing the thunder and the roar and

crash of the grinding rocks and snapping trees, in the direction of the mountain which was enveloped in clouds, he had hurried his family to a place of safety on the hill-side a hundred yards distant, while he waited to see what was coming. When he saw the avalanche emerge from the forest into the open road, some 200 yards in front of his house, and make straight for it, of course he gave up all for lost. Of course the figures given above are only approximate. Gen. Clingman, who had the pleasure of visiting the spot within a month and a half of the evidences of the action of the waterpout, which are now dimmed, or perhaps obliterated, tells me that he made the amount of water more than 10,000 cubic yards. "So that my figures are much within the probable limits. It may be of further interest to mention that another waterpout, not so large, fell at the same time on the opposite side of Fish Hawk Mountain, only a few hundred yards distant, and two others within a mile on the same side. And along the high mountains around the valley of the upper Tennessee, it is supposed that there were not less than 40 to 50. The date of them is June 15, 1876, 3 P. M.

There is no satisfactory account of this phenomenon. And it is not likely that any one will soon have an opportunity to study them. But it is obvious that the waterpout at sea has the same origin as the common notion that the waterpout is a "sea devil," sea being displaced by the well known fact that the water is fresh, as ascertained from its having fallen on the decks of vessels.

A Leon, Texas, young man went into San Sala to marry his girl, but was coolly informed at the door by the old man that she had that morning fled with another fellow. "I can't lose my dollar and a half," groined the jilted youth, who borrowed a horse and side-saddle, pursued the couple, brought her back and married her.

The young man who starts to climb the ladder of fame with the smell of whiskey on his breath seldom reaches the topmost round. The drink sets his head whirling and down he tumbles. Suicide is a hereditary disease in many families in Germany; its frequency is in part attributed to the vicious system of intermarriage among near relations, many uncles and nieces, aunts and nephews marrying merely to keep property or titles in the family.

45 Years Before the Public. THE GENUINE DR. C. McLANE'S CELEBRATED LIVER PILLS, FOR THE CURE OF Hepatitis, or Liver Complaint, DYSPEPSIA AND SICK HEADACHE. Symptoms of a Diseased Liver. PAIN in the right side under the edge of the ribs, increases on pressure; sometimes the pain is felt on the left side; the patient is rarely able to lie on the left side; sometimes the pain is felt under the shoulder blade, and it frequently extends to the top of the shoulder, and is sometimes mistaken for rheumatism in the arm. The stomach is affected with loss of appetite and sickness; the bowels in general are constive, sometimes alternate with lax; the head is troubled with pain, accompanied with a dull, heavy sensation in the back part. There is generally a considerable loss of memory, accompanied with a painful sensation of having left undone, something which ought to have been done. A slight, dry cough is sometimes an attendant. The patient complains of weariness and debility; he is easily startled, his feet are cold or burning, and he complains of a prickly sensation of the skin, his countenance is sallow, and although he is satisfied that exercise would be beneficial to him, yet he can scarcely summon up fortitude enough to try it. In fact, he distrusts every remedy. Several of the above symptoms attend the disease, but cases have occurred where few of them existed. Yet examination of the body, after death, has shown the disease to have been extensively deranged.

AGUE AND FEVER. DR. C. McLANE'S LIVER PILLS, IN CASES OF AGUE AND FEVER, when taken with Quinine, are productive of the most happy results. No better cathartic can be used, preparatory to, or after taking Quinine. We would advise all who are afflicted with this disease to give them a FAIR TRIAL. For all bilious derangements, and as a simple purgative, they are unequalled. BEWARE OF IMITATIONS. The genuine is never sugar coated. Every box has a red wax seal on the lid, with the initials DR. McLANE'S LIVER PILLS on the wrapper. Insist upon having the genuine DR. C. McLANE'S LIVER PILLS, prepared by Fleming Bros., of Trenton, N. J., the market being full of imitations of the name McLANE, spelled differently but same pronunciation.

Wilmington Sun. A Daily Democratic Newspaper. Under the above name. Published weekly by the SUN ASSOCIATION, from the Printing House of Messrs. Jackson & Bell, at No. 101 North Carolina Street, in the city of Wilmington, North Carolina, on or about Thursday Morning, October 17, 1878.

The SUN will be published by the SUN ASSOCIATION, from the Printing House of Messrs. Jackson & Bell, at No. 101 North Carolina Street, in the city of Wilmington, North Carolina, on or about Thursday Morning, October 17, 1878.

ADVERTISING RATES: One inch, one publication, \$1.00; one inch, two publications, \$1.50; one inch, three publications, \$2.00; one inch, four publications, \$2.50; one inch, five publications, \$3.00; one inch, six publications, \$3.50; one inch, seven publications, \$4.00; one inch, eight publications, \$4.50; one inch, nine publications, \$5.00; one inch, ten publications, \$5.50; one inch, eleven publications, \$6.00; one inch, twelve publications, \$6.50; one inch, thirteen publications, \$7.00; one inch, fourteen publications, \$7.50; one inch, fifteen publications, \$8.00; one inch, sixteen publications, \$8.50; one inch, seventeen publications, \$9.00; one inch, eighteen publications, \$9.50; one inch, nineteen publications, \$10.00; one inch, twenty publications, \$10.50; one inch, twenty-one publications, \$11.00; one inch, twenty-two publications, \$11.50; one inch, twenty-three publications, \$12.00; one inch, twenty-four publications, \$12.50; one inch, twenty-five publications, \$13.00; 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