# THE MINERS' AND FARMERS' JOURNAL.

## CREDIT SALE.

CREDIT SALE. By Virue of a Decree from the Court of Equity, I will office for sale, at public acc. tion, at the Court. House in Charlotte, on the 4th Monday in January, 1832, one undivided half of a valuable tract of Land, lying on the waters of Paw Creek, joining the lands of Wm. Carson, the Faw Creek, joining the lands of Wm. Carson, the heirs of Wm. Sharply, dee'd, the M'Corkle mine tract, and others, belonging to the heirs at law of Margaret Patterson, dee'd, and sold for the benefit optimum anong wid heirs. Said tract of land contains about 254 acres, on which there is a val-ued contains about 254 acres, on which there is a val-montain about 254 acres, on which there is a val-montain about 254 acres, on which there is a val-exact security required. The same day, at the same place, and My the same authority, f will sell one other tract optimisting 110 acres, belonging to the heirs and southers, sold for the benefit of said heirs, on a cre-store. D. R. DUNLAP, C.M.E. 762-pr. adv.821

#### 7t69-pr. adv. 821 VALUABLE

# Catarcha Land for Sale.

**Cataacba Land for Sale. DURSUANT to a Petition filed in the Court** of Equity for Lineahu court, by Israel W. Hayne, Harriet Eloisa and Sarah Hayne, infants, by their Guardian, and in obedience to a decree of said Court, I shall sell, at Public Austion, be-fore the Court, House door in Lincolnton, on the 17th day of January next, (being Tuesday of the County Court, a valuable Tract of Land, lying in said county, near the Buffilo Shoals, on the Ca-tawha river, containing about 220 acres. The above land is represented to be first rate as to soil, and well timbered, with a small improve-ment, and about 25 or 30 acres of fresh cleared ground.

Persons wishing to purchase a good farm, would be resons wishing to purchase a good farm, would do well to view the premises, and attend the sale. Conditions—one and two years credit—bond and approved security required.

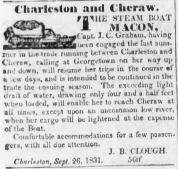
By order of the Court, JNO. D. HOKE, Clerk & Master. Nov. 15, 1831. 6166-pr. adv. \$21

#### Tin and Sheet-Iron Ware MANUFACTORY.

#### L SUMNER & CO.

J. SUMPER & CO. **R** ESPECTFULLY inform the citizens of the charlotte, and the public generally, that hey have commenced the above Business at the old stand formerly occupied by E. M. Bronson, and recently by Capt. Tho. A. Mera as a grocery, on Main street, a short distance north-ensit from the Court-House, where they intend to keep on hend a good assortment of Ware, and expect to be able to supply at wholesale or retail, on the most reasonable terms, all who may fivor them with their custom. N. R. All kinds of Job Work in their line done

N. B. All kinds of Job Work in their line done at short notice. LTWanted, an Apprentice to the above business; one who can come well recommended, will receive suitable encouragement.



REMOVAL.

THE SUBSCRIBER respectfully informs his friends and customers, that he has removed from his old stand to the Store nearly esposite R. C. Hatawar, formerly occupied by J. Beers, where he will keep constantly on hand every arti-cle suitable for the back county trade. FRANCIS WILSON. Cherave, Oct. 18, 1831. 57

WY HOUSE, (the Post-office) my number of the Constant of the Post-office) north-west of the Court-House, in *Lexington*, N.C. is again opened for the reception of Travellers & Boarders. The stables are extensive, roomy and dry; grain and provender of the best, plentful, and served by good hostlers. The house has ma-ny comfortable rooms, serves a good table and re-tre-bments; and the proprietor and his family will omit nothing in their power to make it most quiet and agreeable. By D. ROUNSAVILLE.

194' D. D. R. Reward. **40 Dollars Reward. T** WENTY DOLLARS of the above will be the thief or thieven, and Twenty Dollars for the recovery of the property, stolen from the Mill at Cozon's Store, on the night of the 26th or 27th of November last, consisting of a large quantity of Quicksilver, with some Gold in it. J. HULME.

Curvillion, Mecklenburg Co. Dec. 8, 1831. 6t69

SHERIFFS' DEEDS, sold for Taxes; for Lands

# GEOLOGY. From Sillianan's Journal of Science and Arts. PRINCIPLES OF GEOLOGY

Condensed view of the discoveries respecting the structure of the earth, which have produced the modern practical system of Geology. Extracted from Phillips' Geology of Yorkshire.

CONTINUED. Having considered the internal structure of our planet, and shewn how the rocks succeed one another in a fixed order, and rise successively to the surface; how variously they are filled with the monumental reliquize of organic beings which existed during the remote ages, when the secondary strata were deposited beneath the ocean ; and also examined the effects of convulsions within the solid substance of the earth; it

becomes necessary to turn our views to the The external features of the earth surface. afford many interesting subjects of reflec-tion, and are replete with memorials of mighty changes. Though it cannot be mighty changes. Though it cannot be supposed that, by investigation of its present appearance, we should be able to determine completely its former condition, enough is known to assure us that after the earth was dried and made habitable, its whole surface was a gain submerged and overwhelm-ed by an irresistible flood. Of many important facts which come under the consid-eration of geologists, the "Deluge" is, perhaps, the most remarkable ; and it is established by such clear and positive arguments, that if any one point of natural history may be considered as proved, the deluge must be admitted to have happened, because it has

eft full evidence in plain and characteristic effects upon the surface of the earth. Formerly, indeed, when geology was in

its infancy, a wrong method was followed, and the fossil shells and other organic remains, which were certainly deposited in the rocks before the deluge, were appealed to as evidence of that event. This mistake tained, without a gress anachronism. Examine where we may the action of moving water, whether in little mountain rills, lakes ruffled by the wind, flowing rivers, or on the margin of the sca, we every where perceive the same effects; stones smoothed and rounded, masses crumbled and disintegrat-We may trace old channels of rivers ed. by the pebbles left in them, and the set of the tide by their accumulation on the shore; in a word, the action of moving water is known by its effects. As the old channel known by its effects. of a rapid stream is filled with pebbles that declare the force of the current, so the whole earth is covered by pebbles, the wreck

of a general flood. Filling the vallies, overspreading the plains, and covering the hills, rounded stones, of all sizes and all kinds,

It is impossible to account for the vast run; neither is it commed to such harrow paths as serve for the passage of rivers, nor is it laid in such forms, but is casually and unequally spread over all the face of the country. The blocks of stone which have been thus rolled from their native sites, are, in some cases, of so vast a magnitude, and have been so strangely carried, even a hundred miles or more, over hill and dale, that in vain do we think to assign any other cause for the phenomena, than a great body of water moving upon the earth. With regard to the force of this water, various facts, which have fallen under my repeated examination, may give some idea. On Shap examination, may give some idea. fells in Westmoreland, a reddish granite is well known, and its blocks are at once re-

country to the south, where masses, some

Eastward, this granite has been carried by other currents of the same water, over the No one who cons sold other currents of the same water, over the deep vale of Eden, and the lofty range of hills which extend along the western bor-der of Yorkshire and Durham, across Stain-moor forest, down the vallies of Durham, and the northern dales of Yorkshire, across and the northern dales of Yorkshire, across the vale of York, and the hills of the eas-tern point of the county, to Scarbrough and Scotland, and perhaps Norway. If hills Flamborough-head, where it rests on the summit of the cliff one hundred miles from its ancient situation. This is one of many instances. The dispersion of signific rocks they must have been deepened and widened, from Carrock-fell, Cumberland, of granite from Ravenglass, and of whinstone from that the whole antediluvian surface of the Teesdale, is not less remarkable. Such facts cannot be seen without astonishment, nor contemplated without full conviction .---

The delige is a great feature in the nat-ural history of the earth, and it is highly desirable to fix the period of its occurrence; not to estimate how many centuries have passed away since it happened, nor how long it remained upon the earth; (such knowledge must be gathered from other sources;) but its relative place in the suc-cession of phenomena which have visited the earth : for, in my mind, those geologists have been ill-advised, who, in the present state of science, affect to form a chronology of nature for comparison with the records of history. But the order and series of e-vents may be read in the books of nature,

and by inspection of them, two propositions are demonstrable. the stratification of the earth was couple-ted. The proof is easy : whoever will ex-instances admitted to their full extent, acthe surfating attent of the carter was complexed on the trade admitted to their full extent, ac-amine gravel-pits will be soon convinced of its truth. For in some part or other, the diluvial accumulations contain fragments of by true, that the great mountain ranges every known rock; masses of the old rocks which seem to compose the skeleton of the carried many miles and dispersed over the carth; the wide oceans, plains, and level more recent; and again, pieces of the more recent, washed upon those which are more ancient. Either of these examples is sufficient, because it proves that all the strata ture of the earth. Hence, it follows that were completed before the period of the we must limit our inquiry, as to the changdeluge.

Secondly: The deluge happened after parts of the earth were dry, and inhabited by land animals. On this point the evidence is so plain, simple, and convincing, that he must be indeed strongly armed in scepticism who does not yield to its force. For we find in gravel accumulated by the the elephant, hippopotamus, horse, ox, deer, Therefore, it is perfectly plain, that Sec. such animals lived before the flood.

What a noble field of enquiry does this comprehensive truth open before us! To and, therefore, once connected across the study the remains of a multitude of creawas natural enough in that early period of tures which have been extinct for some the science, but at present cannot be main-thousands of years, and whose living analthousands of years, and whose living anal-ogues dwell only in distant and different tom is a continued plane; their sides corcountries. Cold as is our climate, and now utterly unfit to maintain the existence of such animals, the time has been, if we rightly understand the history of the earth, when elephants and hippopotami, tigers and hyze-nas, lived here together, and here together met the common doom of all inhabitants of And not inconsiderable was the number thus destroyed; for almost every gravel pit and diluvial cliff, and limestone cavern, abound with their remains; some of which, by their unusual proportions, indicate the gi-gantic size and formidable strength of antediluvian quadrupeds. By comparing them Swaledale, Yoredale, and Wharklale, are with existing species, we are enabled to conjecture the antediluvian condition of the mind with the powe world, with what vegetables it was clothed, which occasioned them.

To discuss the interesting questions a rising out of this magnificent subject, would might be laid in its present situation by any be deviating from the elementary plan of occurrence, which yields so absolute a proof streams such as now water the earth. For this chapter. We must, therefore, refer that vallies were formed at periods subseto the works of Cuvier and Buckland for to cours abundantly in places where streams to the works of Cuvier and Buckland for it occurs abundantly in places where streams to the works of Cuvier and Buckland for full illustrations of the forms and habits of full illustrations of the circumstances under which they are discovered : whether antediluvian animals, and the circumstances more satisfactory evidence than in each case each valley furnishes, it deserves to be menin gravel-pits inland, and in cliffs by the sea ; tioned. Some valleys cross and cut thro' or in caves and fissures of limestone, into which they were dragged to death by their ravenous contemporaries, or fell by accident, whilst browzing among the rocks, whose open chasms the deluge has since concealed. But it will be demanded, What chauges

But it will be demanded, in the surface of our planet were occasion-in the surface of our planet waters ? Was the ed by these devastating waters ? antediluvian earth diversified by the same hills and vallies, the same precipices and cliffs as we now behold, or was all this beautiful variety of surface occasioned by that flood, or is it the result of subsequent causes These points have been resolutely debated weit known, and its obcess and the spectral solution of the spectral so ologists having learned to agree upon facts, in Yorkshire, Wiltshire, and Dorsetshire, low-citizens. ons in weight, rest on high ground near have ceased to dispute about opinions, the Sedbergh; and, when the Lancaster canal time is come when the observers of nature was made, such were found of great size in have imbibed a spirit of calm and limited deep cutting, near the town of Lancaster. induction, which leads to candid agreement

No one who considers the extensive tracts

position, some strata were originally depos-ited at higher elevations than others; that, for example, the lower part of the coal se-rics was made to attain elevations not reached by the upper part of the same series; and that the new red sandstone was never in England placed at so great an altitude as some of the strata which lie above it and below it. In these instances, therefore, it has been concluded that the antediavian First: That the deluge happened after features of the earth were not very differcarth; the wide oceans, plains, and level tracts, and even the remarkable lines of seondary hills and most extensive vallies, are placed in accordance to the interior struc-

es produced on the surface of the earth by the deluge, to the vallies and hills which seem evidently to have derived their peculiar features from currents of water, since the consolidation of the strata. Even thus limited, the subject is ample, fertile, and in-structive. Many vallies in a secondary country are excavated through several stradeluge, the bones of many land animals, as ta, as linestone, clay, and sandstone, which appear on the opposite sides in most exact agreement as to thickness, composition and mode of arrangement. That such rocks were originally deposited in continual planes, chasm or valley which now divides them, can hardly be doubted. The vallies themcording to the facility with which the ma-terials were abraded. These were called vallies of denudation, and they are very numerous and extensive. In western York-shire, the great mining vallies of Teesdale, mind with the power of the currents In the eastern mixed together in as much contusion as pebbles on the sea-shore, (fragments of all the known rocks which compose the inte-rior of the earth.) are profusely scattered on its surface. In the eastern scope need be given to fancy, the truth of analogy, the known conformity of nature, are sure guides to the geologist. In the eastern which occasioned them. In the eastern part of the county, the vallies of the Der-went below Malton, Rievaulx and Bilsdale above Helmsley, Newton Dale above Pick-ering, and Hackness near Scarbrough, are

remarkable and beautiful instances. There is one circumstance of common occurrence, which yields so absolute a proof quent to the deposition of the strata, and is in itself so curious, that though few will seek vertical strata, which must necessarily have been at first deposited nearly horizontal .-Therefore, such vallies were not produced till after the displacement of the rocks.

No one has carried his speculations on this subject so far as Dr. Hutton, who maintained that vallies were, in all cases, scooped out by the streams which run in them. This is a characteristic part of his system of decaying and renewing worlds, and whoever views the minute, though imperceptible effects of our rivers, need not cavil at the ample time he allows for their producing such effects as the denudation of vallies. But this opinion clashes so directly with plain facts, as to be wholly inadmissible. which have never carried water in the memory of ages, down which, indeed, no trace that his influence is the result of moral and of a channel can be seen? branched like the vallies of other districts, and external splendor. In such a village, have all their sinuosity of course, and reg. Lazarus the beggar, with an honest heart,

acknowledge the wide-spreading visitation : --the deluge covered the whole earth. The deluge is a great feature in the nat-duced, evidently by the convergence of op-trees, --accumulations which proceed so slowly in our days, as to be hardly perceivnatural depressions of econvergence of op-duced, evidently by the convergence of op-posite declinations of strata : as the great vale of the Thanes is occasioned by meet-ing dips from Hertfordshire and Surrey ; and such arc, doubtless, antediluvian. Ma-ny geologists believe that, from some unce ing dips declinations, we find the bones of ny geologists believe that, from some unce the date of the deluge. And when, in these new accumulations, we find the bones of postdinvian animals, which have become extinct through accident or persecution, as extinct through accident or persecution, as well as of others, whose successors still exist in the neighborhood, we may, perhaps, think that little is wanting to complete the evidence of this portion of the physical chro-

nology of the earth. Werner, and most of the moderns, consider the phenomena which have been unfolded by geological research, as the effects of causes no longer in action. But Dr. Hutton believed that all the revolutions which have visited the carth, were but the result of the ordinary operations of nature, continued thro' very long periods of time. He was of opinion that what is now sea, was formerly dry land; and that by the action of rains and rivers, materials are accumu lated on the bed of the sea, to produce the strata of new continents, which by some convulsion, like many that have happened before, will be uplifted and laid bare, v that part of the earth which we inhabit, To this will be sunk under the new ocean. hypothesis it may be objected, that it ascribes to the ordinary agents of nature, ef-fects which appear much beyond their pow-General changes in the relative situanations of marine and fresh water formations, apply only to limited districts; and since well-conducted inquiries into the natural history of antediluvian quadrupeds, have shewn satisfactorily that they lived before the flood over a very large portion of the present continents, we have proof that at the period of the deluge, the sea and land did not change their relative situations

The natural agents now eraployed in al-tering the face of the globe, are fire and water. The former forces fluid matter from the interior, and spreads it around the volcanic mountains; the latter is incessantly occupied in lowering heights, wasting and smoothing precipices, filling up vallies, and equalizing the surface.

(To be continued.)

When the wide occess maddening whirlwinds When the wide occse, maidening whirlwinds awcep, And heave the billews of the boiling deep, Pleased we from land the realing bark survey, And realing mountains of the watery way. Not that we joy another's woes to see, But to reflect that we ourselves are free. So, the dread battle ranged in distant fields, Ourselves secure, a secret pleasure yields. But what more charming than to gain the height Of true philosophy? What pure delight From Wisdom's citaded to view below, Deladed mortale, as they wandering go In quest of happiness: ah, bindly week! Laboar for empty trensurce, night and day, And pant for power and magisterial sway. Oh, wretched mortals ! souls devoid of light,

Oh, wretched mortals ! souls devoid of light, Lost in the shades of intellectual night !

Dr. Bushy's Lucretius

### EDUCATION

Creates a just standard of moral character in a Village.

In such a village no haughty and purseproud aristocracy will ever lord it over a virtuous, but poor democracy. Each inhabitant will stand or fall, accordingly as his moral and intellectual, but not a natural and bodily endowments shall be appreciated.

In heathen lands, where ignorance envelopes the mind in worse than Egyptian darkness, and nothing but the body is at tended to, men are estimated by the strength of the muscular powers, and the height of their worldly goods. In a christian and civilized place, the distinctions of nature and art are lost in the loveliness of moral worth. It will not do for a man there, to plead as a reason for his advancement, merethe mind of a scholar and a christian ;-Yet they are intellectual worth, not of bodily strength ular declination, but the soil and stratum will fare much better, eventually, than the are too absorbent to be moistened by the wicked rich man clothed in purple and fine

sold under a Writof Fieri Facias; and for Land sold under a Writof Venditioni Exponas-for sale at this Office.

Pores of the Human Body. The skin of the human body, is a very curious object for the microscope. By cut ting a thin piece with a very sharp penknife or razor, and applying it to a good microscope, a multitude of small pores will be seen, through which the perspirable matter is supposed to be perpetually transmitted. These are best seen in the under or second There are said to be 1000 pores in skin. the length of an inch, and of course, surface an inch square there will be 1,000,-000, thro' which, either the sensible or in pensible perspiration is continually issuing. If there are 1,000,000 pores in every

square inch, the following calculation is made of the number in the whole body : 10.6

teen feet; and, as each foot contains 144 inches, the number of pores will be estimation of the Carrock-fell, from which so large inches, the number of pores will be estimation of the carrock-fell, from which so large inches, the number of pores will be estimation of the carrock-fell, from which so large inches, the number of pores will be estimation of the carrock-fell, from which so large inches, the number of pores will be estimation of the carrock-fell, from which so large inches, the number of pores will be estimation of the carrock-fell, from which so large inches, the number of pores will be estimation of the carrock-fell, from which so large inches, the number of pores will be estimation. Moved; and as to the extent, all countries in the carefully selected from the phe-form of the carrock-fell, from which so large invian, but aboriginal. There are, also, inany lesser features of this kind, which instruct. For when we find the diluvial de-the General Congress of Philadelphia." The surface of the body of a middle

were known before the flood, their present peculiar shapes must be dated from that event ; and if vallies were then in existence, possibly filled up and obliterated. world was even and uniform, is altogether improbable. For, to a very considerable extent, the great features of the earth's sur-As to the height of this flood in our own coun-face are determined by peculiarities in its try, the sides of Ingleborough, on which internal construction. Its highest ranges

rocks, but its widely extended plains are based on another. Obviously, therefore, these great distinctions are not only antedi-luvian, but aboriginal. There are also rest fragments of rocks transported from of mountains are composed of one set of Keswick; the brow of Stainmoor, which rocks, but its widely extended pluins are

most hasty rain.

The excavation of vallies can be ascribed to no other cause than a great flood of look at mind and not at matter, in their eawater which overtopped the hills, from whose timation of men. summits those vallies descend. Such a flood, put in violent motion, might, we may suppose, by its currents and eddics, scoop hollows which afterwards, on its retreat, would be extended in long connected vallies. From the best and most independent evidence we have shewn, that such a flood has But once overflowed the earth since the consolidation of its surface; and as we have no proof of more than one such flood, and as there seems to be no contrary evidence, it "For myself, I must declare and avow, that

linen, and faring sumptuously every day. For the inhabitants will know enough to The first question they will desire to settle concerning any candi-date for their confidence, or their esteem, or their assistance, will not be,—is he rich? -or is he mighty ?—But is he good? It was this simple but mighty power, of a moral and religious education which in our own country, gathered together, in the year 1774, a body of men concerning whom one of the most eminent English statesmen, -I allude to the Earl of Chatham-said-

is probably to the deluge we must ascribe in all my reading and observation, and it has been my favorite study ;---I have read