

PUBLISHERS' ANNOUNCEMENT.

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THE NEW BERNE JOURNAL, a 24 column paper, is published every Thursday at \$2.00 per annum.

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Advertisements under head of "City Items" 10 cents per line for each insertion.

No advertisements will be inserted between local matter at any price.

Notices of Marriages or Deaths, not to exceed ten lines will be inserted free. All additional matter will be charged 10 cents per line.

Payments for transient advertisements must be made in advance. Regular advertisements will be collected promptly at the end of each month.

Communications containing news or discussion of local matters are solicited. No compensation must be expected to be published that contains objectionable personalities; withholds the name of the author; or that will make more than one column of this paper.

THE JOURNAL.

M. S. WURN, Editor.

NEW BERNE, N. C., MAY 1, 1884.

Printed at the Post office at New Berne, N. C. as second-class matter.

SOUTHERN INDUSTRIES.

CHARLESTON, S. C.

One cannot linger long around the docks of Charleston without noting the fact that a great part of their life and activity is due to the phosphate industry. Large warehouses filled with the crude or manufactured rock, vessels from every nation loading with it at the dock or in midstream, lighters, in the tow of puffing little tugs flying hither and thither, give proof of the trade's importance. The factories in which the rock is ground and treated with sulphuric acid are on the outskirts of the city and easily accessible. The mines, however, are situated in and along the shores of the water courses, and are not easily reached except later in the spring, when the little steamer that carries tourists on the Ashley touches at their wharves.

The friend who volunteered to show us the mines proposed a trip thither on one of the lighters which at 4 o'clock in the morning get under way for the day's work of transporting rock from the mines. It is star-light as we leave the dock. A tug puffing and laboring, hauls out into mid-harbor and alone the ship channel as if bent on going to sea, but by and by turns sharply round the point of the Battery and steers for the mouth of the Ashley. A heavy fog bank out at sea is driving rapidly in; though we hear the faint tones of the bell buoys marking the ship channel, and the hoarser notes of the foghorns on the islands, then the white fleecy waves drive in on us, and we have no world but the tug and lighter, until suddenly at daybreak a huge, dark mass looms up on the right and the boats come alongside the docks and cavernous sheds of a phosphate mine. The point is "Lamb," some thirteen miles from Charleston, on the east bank of the Ashley, which had been recommended to us as the point from which to study the operation of phosphate mining, as well as the beds themselves. Several land mines are located here, and submarine mining is carried on in the neighborhood.

The prominent features of a phosphate mine, after the docks and sheds, are the "washers," great structures elevated on a maze of timbers and filled with a bewildering array of boxes, wheels, crushers and screens, in which the "rock" is cleaned of the mud and clay adhering to it and broken into the proper size for grinding. The rock as it comes in cars from the mines is emptied into the washer, and, after passing through it, falls out on an iron grater or sieve which separates the smaller particles from the larger. Thence the cleaned rock goes in cars and barrows to the drying sheds, where after being dried it is ready for shipment. We were curious to see the product which had created so much activity, and under the sheds found thousands of tons of it. It is nodular in form, the nodules egg or kidney-shaped, and ranging from a yellowish to a grayish white color. The exterior is rough, and indented, often perforated or even honey-combed by round or irregular cavities. In other cases it is smooth and shiny as if coated with enamel. In size, too, the nodules vary greatly, some being but a fraction of an inch, some several feet in diameter. In weight they range from a ton downwards.

From the rock, the friend who conducted us about the woods took us to the mines, which lie a short distance from the wharves, near the shore of the river. In land mining the phosphate deposit must not lie deeper than six feet to admit of profitable working, and as the thickness of the phosphate strata rarely exceeds ten inches, the working is rather a pit than a mine. Around the edges of this pit gangs of black laborers, clad only in shirts and trousers, were toiling with pick

and shovel, throwing the earth behind and the rock on the bank before them, whence it was removed in cars to the washers. They began operations, it was explained, by digging a trench across the side of the tract to be mined, and as they advanced threw earth, tree stumps, and other matter behind them. On this side the men have just laid bare a layer of the phosphate. It is in appearance a smooth, flat, compact rock, but as the workman strikes his pick into it, it breaks into hundreds of the egg-shaped nodules we have seen in the drying shed, perhaps disclosing well preserved casts of oocene shells or fossil bones. Returning to the docks and seeking a shady corner, our friend favored us with the history and a general survey of the industry.

"The extensive marl beds underlying the lowlands of South Carolina," he began, "have long been known, and to some extent utilized, but the presence of these rich phosphate deposits, worth from fifty to sixty dollars a ton, was undreamed of. Cotton and rice come off the surface a few inches above them, yielding the planter tangible wealth, but any one who should have hinted that the dirty looking rocks beneath the surface possessed commercial value would have been regarded as a visionary. In 1865, however, a young chemist of Charleston, Professor Francis S. Holmes, became impressed with the idea that these deposits had a marketable value, and might be made a source of revenue to the land owners as well as to the State. He was poor, like most discoverers, unable to command the necessary means for analyzing and making marketable the product. At first he tried to enlist the business men of Charleston into his scheme, without the slightest success, perhaps because there were then few business men in the city with capital sufficient for their ordinary trade. At last he went north and succeeded in inducing some Philadelphia capitalists to advance funds for his experiments. These triumphantly established the value of the deposit, and 'Charleston rock' at once became an article of commerce. The extent of the beds has not yet been determined. This map of Charleston, Colleton and Beaufort counties is well sprinkled, you see, with the red spots which indicate accessible beds. The largest bed is here near Charleston, bounded by the Cooper river on the east and the Stone on the west, with the Ashley piercing its centre. There is another large tract well up on the Edisto, north of and near the point where the Charleston and Savannah Railway crosses it, the furthest inland of any bed yet worked.

"There is another very productive one at the head of St. Helena Sound, sixty miles west, where the Bull and Coosaw rivers enter it, and another in Beaufort river opposite the town, extending down below Port Royal, and in the creeks and intricacies of Johnson's river, its tributary. These, you must remember, are available beds, i. e., those which State or private surveys have demonstrated can be profitably worked, and have been estimated to contain ten thousand acres. The entire phosphatic beds of the State, so far as discovered and defined, have been estimated at 240,000 acres, and extend from the head waters of the Wando and Cooper rivers, parallel with the coast and distant from it ten to forty miles to the head-waters of Broad river near the Georgia line. The formation probably extends south as far as Florida, and has been discovered in North Carolina.

"The mines are being worked as far west as Beaufort. You have seen the operation of land mining. The taking of the rock from under water is rather more interesting, and is more extensively carried on. Two agencies are employed—darkies with their hands or tongs, called 'tongers,' and the steam dredges. The river beds are found in from three to fifteen feet of water, the strata lying clear, or covered with a few feet of mud or sand. Navigate any of the labyrinth of creeks between here and Beaufort, and you will see the 'tonger' in his flat-boat, patiently bringing up the rock with his tongs in the same way the oysterman works. Sometimes in very shallow water or at low tide he loosens the rock with a crow, and picks it up with his hands. A sight I often witnessed at the inception of the industry was a crowd of darkies on their flat-boats, naked as they were born, diving beneath the water and bringing up pieces of rock as large as a man could well lift. When the 'tongers' cargo is complete, he sells it to the large companies. The steam dredger has, however, largely driven the tonger out of the business. You see over yonder a machine much like that the mud-diggers use in harbor work, whose strong jaws break up the seams and, gathering the rock, pour it into the washer, which is moored alongside thus saving that expensive process at the factory. They are heavy and costly machines, some with a capacity of a hundred

tons a day, and work in from twelve to twenty-four feet of water. "Before passing to the interesting question of the origin of these deposits, you will wish to know something of the extent to which they are worked. I have here a list of thirty-six companies engaged in mining phosphate rock in this State, their capital stock ranging from a few thousands to millions. There are besides some twenty companies engaged in manufacturing the crude rock, some of them with means equally extensive. I am sorry that I have not the figures of production for the last half of 1883. From June 1, 1882, to May 31, 1883, the total amount shipped amounted to 355,333 tons. The total amount mined from the 1st of June, 1874, to the 1st of January, 1883, is estimated at 1,565,550 tons, of which forty-four per cent was shipped to foreign ports. All rock lying in the beds of navigable waters is claimed by the State, and after a number of quite exciting lawsuits, her claim has been sustained by the courts. She exacts a royalty of one dollar a ton on rock thus mined, and in one year received from this source, \$124,541, a single company—the Coosaw—paying \$99,135 of the amount. The selling price of the crude rock varies from \$5 to \$9 per ton.

"Since the discovery of the phosphate beds they have been the subject of much interested study by men of science. Perhaps the first printed contribution to the subject was a little pamphlet by Professor Holmes on the 'Phosphate Rocks of South Carolina; Their History and Development,' printed at Charleston in 1870. The theory of this gentleman was, that the nodular phosphates were detached masses of oocene marl broken by the waves from the main formation underlying our coast, and swept inland over the sand bars to be deposited in the shallow bays that now form the bed of the phosphate deposits. On the subsequent elevation of the shore of the continent these lagoons were frequented by land animals whose remains, added to those carried by the streams into the same receptacle converted the carbonate of lime found in the marl beds into the phosphatic nodular rock of our mines. I have seen no other theory nearly as tenable as this. Animal remains in large masses constantly occur in the deposits, but are never embedded in the nodules. I have a list of the more important objects found in our mine and preserved in the private collection of a gentleman of Charleston which may interest you. It includes the teeth, bones, and tusk of the elephant, teeth and vertebra of the mastodon, skull, teeth, and ear-bones of the whale, skull and ribs of manatees, heads and teeth of crocodilians, jaw bone of deer, with teeth, horns of deer, coprolites, skull and ribs of cetacean, fossil shrimp, jaws and ribs of alligator, leg-bones of camel, teeth of tapir, jaw and skull of porpoise, fossil barnacles, small and large; silver coin, proroziphus maceps (Leidy), teeth of zengloden, teeth of megatherium, teeth of walrus, teeth of plesiosaurus, teeth of ichthyosaurus, teeth and bones of beaver and muskrat, teeth of the plodon, teeth of the mylodon, teeth and bones of the monkey family, teeth of the peccary, cast of conchs, cast of periwinkle, leg-bone and ribs of bison, Indian skulls, arrow heads, pottery and weights, teeth of sharks of many varieties, skull of dolphin, teeth of stingray, teeth of extinct species of horse, bones of turtle, teeth of reptiles, clams, fossil oysters, coral cast in marl, jaw of swordfish, teeth of raccoon, rabbit and opossum, and bones of garfish.—Cor. to New York Post.

"Tobacco fit for a king," is what was said of a famous brand of Havana cigars. And it was, too; for it turned out to be the identical brand (\$1,000 per thousand) which Louis Napoleon smoked. Where made? Havana. Of what leaf? Now prepare for a surprise, yet the truth, by confession of the maker—of leaf imported from the Golden Tobacco Belt of North Carolina. That purity, flavor, fragrance, belongs to no other tobacco. Out of the very best of it is made Blackwell's Durham Long Cut, for pipe and cigarette smoking. The trade mark of the Durham Bull and the Long Cut Brand give you the Emperor's tobacco.

The Portals of the Head,
the lips, allow the escape of a foul breath when the teeth are coated with impurities or falling into decay through neglect. If you would not well nigh nauseate your friends and inspire strangers with disgust, rid your mouth of such Augean odors by purifying your teeth with Scodant, which, if they are not past redemption, will revive their pristine whiteness, and reinforce the shakier members of the dental family.

A Remarkable Tribute.
Sidney Ourchundro, of Pittsburg, Pa., writes: "I have used Dr. Wm. Hall's Balsam for the Lungs many years with the most gratifying results. The relieving influence of Hall's Balsam is wonderful. The pain and rack of the body, incidental to a tight cough, soon disappear by the use of a spoonful according to directions. My wife frequently sends for Hall's Balsam instead of a physician, and health is speedily restored by its use."

Don't Die in the Night.
"Rough on Cuts" cures cuts, nicks, scratches, bed-sores, flies, ants, scabs, chaps, burns, rashes, etc.

ROYAL BAKING POWDER

Absolutely Pure.

This powder never varies. A marvel of purity, strength, and wholesomeness. More economical than the ordinary kinds, and cannot be sold in competition with the multitude of low test, short weight, alum or phosphate powders. Sold only in cans. ROYAL BAKING POWDER CO., 108 Wall-st., N. Y. nov15-lyw

The best evidence in the world of the purity and excellence of Blackwell's Bull Durham Smoking Tobacco is found in the fact that the fame of this tobacco increases from year to year. This could not be the case if it were merely "gotten up to sell," or had any dubious or dangerous ingredients in it. Among millions of users of all nationalities, surely some one would find out if it were impure, injurious or unpalatable. For this year this tobacco has been acknowledged to be the best in the world, and every year the Bull Durham brand becomes more popular, the demand for it wider, and smokers more enthusiastic over its delicious natural flavor. Ask your dealer for it. Get the genuine—trade-mark of the Bull.

There is no mischief done where Blackwell's Bull Durham Smoking Tobacco is used.

The Seaside Resort of the Southern People.

THE ATLANTIC HOTEL,
MOREHEAD CITY, N. C.

Under new management. Fifty rooms just added and handsomely furnished—a total of 300 elegant rooms. Electric bells, gas and water in every room. New bath houses, new wharves and promenade. Finest fishing in America; finest beach on the Atlantic coast. Wm.'s Atlanta Orchestra engaged for the season. Boat races, moonlight sails, drives on the beach, pony penning, ten pin, billiards, rolling for Spanish Mackerel and Bluefish, bathing and various other amusements. Excellent Cuisine, fine climate, no malaria, mosquitoes or sandflies. Moderate rates of board. Rates per day \$2.50 to \$3. Per week \$14 to \$17.50. Children and colored servants half price. Special inducements to families or large parties. House open from June 1 to October. Special season tickets secured at all points. For further particulars address proprietors to James Lee at Hatesh, N. C., afterwards at Morehead City, N. C. R. B. RANEY & CO. ap3-d2m

WEAK, UNDEVELOPED PARTS
OF THE HUMAN BODY ENLARGED, DEVELOPED, STRENGTHENED, ETC., from interesting advertisement long run in our paper. In reply to the queries we will say that there is no evidence of humbug about it. On the contrary, the advertisers are very highly colored. Interested persons may get particulars from all retailers by addressing: MEDICAL CO., Buffalo, N. Y. - Photo Engraving Bldg.

PARKER & PEELE,
GENERAL COMMISSION MERCHANTS,
No. 64 SOUTH GAY STREET,
BALTIMORE, MD.

Special attention given to Early Vegetables in Season. mar22-d4w3m

Washing and Scouring Made Easy.

TRY PYLE'S PEARLINE
FOR EASY WASHING.

For sale at Manufacturer's Prices by
C. E. FOY & CO.,
Briek Block, Middle St.,
Newbern, N. C.
mar15-d

NEW HOTEL,
AT
Snow Hill, Greene Co., N. J.

Well furnished, and Table supplied with the BEST of the market affords. Sample rooms for commercial travelers.

RATES REASONABLE.

W. E. GRIMSLEY,
Proprietor.
feb15-d4w1f

NEW HAVEN PALLADIUM.
(DAILY AND WEEKLY.)
ESTABLISHED.....1838

The best advertising medium at the North for every man in North Carolina who has a farm, mine, tract of timber land or water power to sell. The letters of our staff correspondents have given the PALLADIUM a great reputation throughout New England, as the only real representative of the "far West" (Ohio and all New England) who bring of news to the "East" from the "East."

For terms and other particulars address: P. O. BOX 100, NEW HAVEN, CONN.

DAVIDSON COLLEGE,
MECKLENBURG CO., N. C.,
1884-'85.

The next Session opens on THURSDAY, SEPTEMBER 11.
For Catalogues apply to the CLERK OF THE FACULTY.
feb15-d4w3m

Dail Bros.
WHOLESALE GROCERS

NORFOLK.

Dismal Swamp Lottery
Company
OF
NORFOLK, VA.

The franchise of this enterprise is based upon the chartered right granted to the Dismal Swamp Canal Company, and the legality has been repeatedly tested before the Courts of the State.

The Purpose in view is the "improvement and extension" of the Canal, thus securing great public benefits.

Its fair conduct has already secured public confidence, and the next Drawing will be made on the

15th May, 1884,
before the public in Norfolk, Va.

CLASS G.

SCHEME:

CAPITAL PRIZE \$5,000.

1 Prize of \$5,000	18	\$5,000
1 do. 1,500	18	1,500
1 do. 1,000	18	1,000
1 do. 500	18	500
1 do. 200	18	200
1 do. 100	18	100
1 do. 50	18	50
1 do. 25	18	25
1 do. 10	18	10
1 do. 5	18	5
1 do. 2	18	2
1 do. 1	18	1
1 do. 1/2	18	1/2
1 do. 1/4	18	1/4
1 do. 1/8	18	1/8
1 do. 1/16	18	1/16
1 do. 1/32	18	1/32
1 do. 1/64	18	1/64
1 do. 1/128	18	1/128
1 do. 1/256	18	1/256
1 do. 1/512	18	1/512
1 do. 1/1024	18	1/1024
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