

# SUPPLEMENT OF THE BEE.

NEW-ORLEANS, SATURDAY, JANUARY 11, 1834.

For accounts of the last European news see 4th page.

STATE OF LOUISIANA:

ELEVENTH LEGISLATURE, SECOND SESSION

JOURNAL

OF THE

HOUSE OF REPRESENTATIVES.

TUESDAY, December 24th, 1833.

The House met at 10 o'clock A.M. Mr. L. V. Morris, of Lafayette, ordered from Friday his leave of absence be granted to Mr. Garfield, ordered that letter of leave be granted to Mr. Desbassayns, and that the same be sent to Mr. DeBastion, and that a message be sent to the Governor by Mr. Verona, his Private Secretary, forwarding to the House the report of the Civil Engineer, together with the report of the Board of Public Works, which lie in the following words:

**REPORT.**

OF THE CIVIL ENGINEER OF THE STATE.

New Orleans, Dec. 16, 1833.

This undersigned civil engineer of the State of Louisiana has the honor, in obedience to the act of Assem'd, 2d, 1832, "providing for the appointment of a civil engineer," of submitting the following report to the legislature:

My duties were prescribed by the board of public works in May last, and so soon thereafter as the necessary arrangements could be made, I began their execution. The existence of a devastating epidemic in the western waters left me, at that time, only two days for a safe field of operations. I accordingly proceeded to the examination of the rivers Pecos and Tangipahoa. After the completion of this operation, I transported myself to East Texas, where I attempted to the survey of the route for the railroad projected in that quarter. More time than I had expected was employed in this business, both on account of the difficulties arising from the brokenness of the country, and because of the extraordinary sicknessness of that district, which began in August, lasted to a late period, and abated but few. Nearly all my company fell sick at the same time, and I had to suffer the loss of one of my assistants, L. B. Davis, a very promising young man.

Before resuming their operations, it became necessary to attend to the works at the mouth of the Bayou Teche, where, unfortunately, the river had much later than usual, I received a report of this business to the board of public works in October, and measures were taken to begin the work. This was done early in November, under the management of Mr. H. Tuthill, the agent appointed by the board.

In pursuance to the instructions then received, I referred to my assistant Mr. D. N. Welsh to proceed immediately to the survey of the Atchafalaya, from which he has not yet returned.

From this survey it will easily appear, that considerable progress has been made during the early part of this year, without suspending field operations during the month of November and the beginning of December, probably the most favorable time of the whole year for surveys in this latitude and peculiar country.

The reports on completed operations are hereto annexed; the others will be transmitted without delay after the return of the assistant engineer.

Though at present imperfectly acquainted with the localities and interests of the different districts of the state, to suggest any particular improvement, the information I have gathered during the past year has forcibly impressed upon my mind the conviction that few states require internal improvements so much, and probably none is as susceptible of them.

We possess the merit of a most extensive empire; the every kind of produce whether of the soil or of industry is cheap, and can be brought down the Mississippi at a low rate of freight. The sea introduces like wise competitors from our distant ports. How can the planter withdraw himself against him, unless favored with an easy access to New Orleans? Only such places as possess this advantage can flourish; others must necessarily settle but slowly, labor under many inconveniences, and be confined in their industry to such productions only as can reach the market at suitable times and places. Variety and abundance are the chief objects, and many enterprising planters can realize but slender rewards for their labor. Thus people living, it may be said, at the very gates of New Orleans, are compelled to yield the prize to distant speculation. But let me say, interceptors will be soon occupied; the resources of her rich soil rapidly developed, and she will, at least, be the first to enjoy the unparalleled advantages of her own prosperity.

As regards the facility of making the necessary improvements and the certainty of their efficacy when completed, it will strike the most common observer. Over so flat a country, no formidable obstacle will be encountered, that would be in a mountainous region, add to the time of transportation, or take from the efficacy of the power so much as to render the returns doubtful. Here the full effect of the power applied and the greatest allowable speed are rendered certain, by the generally level character of the land; and, consequently, every work judiciously conducted, must needs repay the state amply, both by the tolls which will accrue, in so fertile a country, with a denser population, and by what is far more important and valuable, as a state object, the increased wealth and prosperity of its territory.

In framing a general system of improvements, much difficulty will certainly arise concerning the leading objects most deserving of public attention; not only an intimate knowledge of the country, its resources and relative interests is indispensable, but also, in many instances, the mind must read into the future, and anticipate those changes of circumstances, so common in this new country, that transfer the importance of existing places, to others perhaps wild and unknown. This is necessarily in order, that the expenditures may

be judiciously bestowed, upon lines of communication and works, likely to increase in interest, with the growth of the population and the general development of the wealth of the land.

The most prominent feature which strikes the mind, while casting a general survey over the state, is the great stream to which it owes its birth and which must ever be the main artery of its trade. Capricious and uncontrollable, its power must be submitted to. The only modification it would admit of (and that is generally in anticipation of its mighty will) is the cutting off of some of its great bends. Such works I have frequently heard suggested. On ordinary rivers, they are always objectionable, on account of the reduction of depth, increase of the current and new bars, by which they ultimately rather injure than benefit the navigation. The immense depth of the Mississippi places it out of the reach of those objections. The only unfavorable consequences that can result from shortening it would be occasioned mainly by the peculiar light and fragile character of its banks.

A cut-off, as it is generally termed, will, of course, produce an acceleration of the velocity of the current, and consequently the diminution of marginal property on the side against which it will injure, below the new channel. For, the banks of a river cannot be considered as the work of chance; they are necessary to its regime; that is, to a proper equilibrium between the velocity of the current and the tenacity of its banks and bottom, and these must necessarily wear away until, by increased distance, the speed is reduced to its proper standard. Thus the consequence of a cut-off will be, that in the end, a new head, nearly equivalent to the former, will be made by abrasion on one side and a corresponding *bathote* on the other; the higher and better ground of the two having been carried away, and consequently higher levees becoming necessary. This result though it may sometimes be very slow, is nevertheless certain, what weight may be given to this consideration along the Mississippi is difficult to establish.

As regards the opinion that cut-offs will

cause the stream to dwell more below them and require higher levees, I cannot but deem it erroneous. At the place of the cut itself there must necessarily be an increase of velocity, and consequent sinking of the surface, throughout the channel below, a little reflection must convince, that the same quantity of water being received from above, there can be no increase of the current. Only the stream will rise faster, but even that, not perceptible extent.

The next consideration which presents itself will be reference to the lateral works, by which a communication may be opened from each point with the Mississippi, and the expediency of a uniform mode of conveyance, natural, suggesting canals as facilitating better with the interior channels and lakes, so far as the interior of the state. Unfortunately, this principle of expediency is not every where applicable. Between the navigable waters of the interior, no doubt can exist as to the preference to be given to canals, even at a reasonable addition of cost; no doubt likewise than in the lower part of the Mississippi, where its rise is moderate, canals will be found, not only advantageous, but from the very nature of the soil, frequently the only practicable mode of improvement.

But when we consider the height of the banks, which are high in proportion to the opening of canals becomes almost impracticable. The descent of the country, being sharp, the Mississippi towards the interior, contrary to what occurs elsewhere, the stupendous works that canals would require, would have to resist the whole pressure of the stream, and their existence in an alluvial soil, must be very precarious; while their cost and that of the excavation must be greatly increased by the enormous height of the banks, caused by the enormous height of the banks, the immense quantity of large logs and stumps generally found under the surface, and the necessity of digging in water. In such situations railroads necessarily must evidently be preferred to canals. This will generally be the case above the neighborhood of New Orleans, and every corner of Louisiana will be soon occupied; the resources of her rich soil rapidly developed, and she will, at least, be the first to enjoy the unparalleled advantages of her own prosperity.

These considerations give additional importance to rail roads in Louisiana. I say again, that the checked and many enterprises of planters can realize but slender rewards for their labor. Thus people living, it may be said, at the very gates of New Orleans, are compelled to yield the prize to distant speculation. But let me say, interceptors will be soon occupied; the resources of her rich soil rapidly developed, and she will, at least, be the first to enjoy the unparalleled advantages of her own prosperity.

Along the rail roads of vital interest, I do not hesitate to place one; towards the interior, I mean a great line, leaving the Mississippi towards Washington city, which, leaving the river at a suitable point, should take its direction through Mississippi and Alabama, towards the Southernmost bend of the Tennessee river, and thence along the great valley of the Tennessee through the state of that name, and then through Virginia.

My examinations while engineer to the interior state, have informed me that the route across the mountains is more remarkably practicable, and although many others passing over the Allegheny mountains have been mentioned, I doubt whether any of them will be seriously undertaken when costs and profits are carefully considered in relation to each other. The route I mention affords long slopes along the valleys of water-courses by which the mountains can be ascended imperceptibly at grades less distinct and separate improvement diverging from the *Plains* was deemed more expedient.

The following are some of the altitudes obtained by the level, and all referred to high water mark at Port Hudson, the low water line could not be observed.

Top of the bluff at Port Hudson,	110 ft.
Bank of Black creek,	92 "

In framing a general system of improvements, much difficulty will certainly arise concerning the leading objects most deserving of public attention; not only an intimate knowledge of the country, its resources and relative interests is indispensable, but also, in many instances, the mind must read into the future, and anticipate those changes of circumstances, so common in this new country, that transfer the importance of existing places, to others perhaps wild and unknown. This is necessarily in order, that the expenditures may

increase and secure the cotton and other products of Mississippi and Alabama are alone sufficient to recommend it.

The route which I have heard spoken of through all the Atlantic states would be far from possessing equal advantages; but, although passing through a lower country, it would have to cross innumerable streams at great cost, and its graduation would consist of a succession of ascents and descents across all the ridges dividing those streams. As regards its utility, it would subserve the travelling interests, but only in limited degree the purposes of trade, especially the fact alone, that it would both

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The map and profiles, prepared from the

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The map and profiles, prepared from the

notes, will show the relative situation of all the points and all the circumstances of the proposed route.

The rail road must, of course, be constructed altogether of timber, capped with bars of iron as usual. Owing to the objections to deep cuts and the consequent want of materials for embankments, as much as known economy of the plan, its superstructure will generally have to be supported upon piles.

A road of this description will, I think, approximate a cost of \$20,000 per mile, or very nearly \$176,000 in the aggregate; a sum, the expenditure of which will be amply repaid by the returns such an improvement must yield when carried out Mississippi the extreme section along the line of communication being, it is well known, always the most profitable. But, except in the work should be undertaken with a view to its extension to the limit of the state, and an expectation of its being prolonged by the next.

**THE CHAPOUPILAS.** Coming directly from a narrow river, the bayou, the adjoining of public works concerning the incipient measures taken towards the work at the mouth of this bayou.

Consequence of the report alluded to by Mr. Tuthill and me, I think, will be the construction of the works recommended in said report, he began the excavation of the channel across the canal in November, a work of which month I visited the place. The agent was then pushing the work with great activity and intelligence.

I had, despatched with him, for opening a channel through the drift wood at the mouth of the old bayou and securing the head of the Hudson rail road, of which I shall now proceed to give the outlines, and which I would consider of little value, if not extended to the Mississippi River.

**THE CLINTON AND PORT HUDSON RAIL ROAD.** The distance between the two points was ascertained to be 20 miles and 120 poles, on a straight line bearing S. 13° E. W., but the unevenness of the country does not allow of an approach to that course, without a very great expense and a sacrifice of a great share of the utility of the road. For as the grades could not be materially reduced, by cutting, owing to the generally wet and spongy character of the soil, and the many small depressions which cut it up, they must necessarily remain high in many places. Near Clinton, for example, after having crossed the Comitee, the elevation rises about 70 feet in half a mile, and this elevation could only be reduced by cutting.

After diligent exploring the country, I became convinced that we must either cut the Comitee bottom, some few miles below the mouth of the river, or turn the head of the Hudson rail road, of which I shall now proceed to give the outlines, and which I would consider of little value, if not extended to the Mississippi River.

**RIVER EXAMINATIONS.** The examination of this river, so far as I can get into it, is intended to have been completed in general with a view to the extension of boat navigation up to that little town, but such a town it would be unsafe to independent of this fact. A part of the mass of drift wood must be removed, and the property secured to the purpose of the pier will be.

At the mouth of the drift wood, the pier will be perpendicular, besides being of a moderate length, and the pier will be made of logs, which are to be floated up to the pier, and the pier will be strengthened by driving them into the bank.

Up to the end of the 12th mile, the drift wood is about 4 feet deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 13th mile, the drift wood is about 3 feet deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 14th mile, the drift wood is about 2 feet deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 15th mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 16th mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 17th mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 18th mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 19th mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 20th mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 21st mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 22nd mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

At the 23rd mile, the drift wood is about 1 foot deep, and the removal of it will be required for removing timber, trimming banks, &c.

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At the 48th mile, the drift wood is about 1 foot deep, and the removal of it will be required