The Iron Gateway to the Sudan

All About the New Railway Across the Nubian Desert From Atbara to the Red Sea.

TRARA.-I have come to Atbara rallway centers of the Sudan, Laing

the ionrist travel as well. Already the Mohammedan pilgrims, from central Arries and the whole Upper Nile valley are taking this railroad on their way to and from Merca, some of the tourists who go un the Nile are returning by the Red rea and ships are now sailing regularly from Port Sudan to Suez.

A GREAT PREIGHT ROUTE.

A GREAT FREIGHT ROUTE.

This road is bound to make a great change in the freight rates to the Sudan. All the goods of the past have been landed at Alexas it and carried by rait or heart up the Nile to Shellal, a distance almost as great as from New York to Chicago. There it has been taken by areamers to Wady Haifa, and thence on trains to Khartum. The railroad freight had to be transferred on its way to shellal, being taken from the broad-gage curs at Luxor and placed on the narrow gage from Luxor to Assouan. All of these transfers were costly, and the freight rates were high and the traffic slow. Now ships go right through the Sozz canal to Port Sudan, on the first sous, and there land their goods for the Sudan. There are excellent shipping facilities and the freight is transferred almost direct to the cars, which by one continuous 500-mile haul land them in Khartum. In the past wheat could be sent from Chicago to Liverpool at a lower freight than that which formerly prevailed between the strain of the cause. Liverpool at a lover freight than that which formerly prevailed between history and Wady Halfa. The cause for this was the high price of coal, as it all had to be brought up the Nile from Alexandria and onward by ship and road. The coal is now coming in from the Red sea and the English are erecting shipping facilities to accommodate the traffic.

THE ATBARA RIVER.

But first let me give you some idea But first let me give you some idea of the station which forms the terrainus of the Red Sea railroad. Athora is right in the heart of the Libyan desert. It is about 200 miles north of Khartum at the function of the Athora river and the Nile. It is also at the junction of the Red Sea read with the great trunk him which is to go from Cairo to the Cape. The northern section of the latter starts at Alexandria and runs northward through here to Khartum, where the Blue and White Niles come together and form the main stream.

er and form the main stream.

The Athura river, which can be plainly seen from this station, is the last
branch that the Nile has between this branch that the Nile has between this point and the sea. The Atbara rises in the Abyssinian mountains and it carries down to the Nile every year millions of tons of the rich Abyssinian mud which makes so fertile the Lower Nile vailey. During a part of the year this river has a volume which compares with that of the gentest rivers of the world and at other times much of it is as dry as a bone. From March until June von can walk screen it is most

as dry as a bone. From March until June you can walk across it in most places without wetting your feet and there is only water here and there collected in the depressions and pools. These contain hippoputamit, crocodiles, turties and fish. This is the case for about 150 miles above Atbara.

The great floods begin in July and last until October. Then the waters are about 30 feet deep and they roll down in a great river from a quarter to a haif a mile wide. They are of a reddish color and are loaded with the volcanic dust of which the Abyselnian highlands are made. When the floods come they bring down masses of driftwood, upon which are sometimes to be seen the dead hodies of elephants and buffaloes. The waters come with great force, and the Athara beauties of elephants and buffaloes.

If seems strange to me when I look at the mighty steel spans which cross the Athera and redict that John Bull had to hits Uncle Sam to make them for him. The Athera bridge was constructed by one of our bridge-building companies and was sent here in sections. It consists of six great size! spans of 200 feet each built upon piers which extend about 20 feet down under the river to the bed rock. The bridge is well built and I am told that it easily willistends the great foods.

A THARA.—I have come in Athara to describe the new railroad which the firstisc have built from here to the Red and. The read begins 200 miles and is the home of the director, Capt. E. C. Minkinter flag. I was through a latter from the program of the hisakest describe any rook, up itil and down, for a distance of 222 miles to Port Sudan. It process one of the bisakest describe and sorth. There is no verectation at all between here and the Rad see, until within about nine miles of the count, where there are no verectation at all between here and the Rad see, until within about nine miles of the count, where there is a scanty growth of thorn bush and scrub, which feeds small stocks of camely and shoop. The only inhabitants of the describer of matting, specified pasture for the gabent trom place to place. It was the sum of the machinists were a mixing our and to order to the countries of the sudan will probably go over it, and, it is believed much of the Budan will probably go over it, and, it is believed much of the Budan will probably go over it, and, it is believed much of the Budan will probably go over it, and, it is believed much of the Budan. How the loughst travel as well altered and port in building the line and port in building the line and a port in building the line and a port in building the line and sort the analysis of the countries of the machinists with walls of galvanized the and telegraph poles lying outside, and going is I based all sorts of the wall will be to provide a discrete from the provernor general that I mut Capt. Midwinter and bad a long take with him about this new road to the row to some the man in the with him about the provernor general that I mut Capt. Midwinter and bade a long take with him about the provernor general that I mut Capt. Midwinter and bade a long take with him about the provernor general that I mut Capt. Midwinter and bade a long take with him about the provernor general that I mut Capt. Midwinter and bade a long take with him about the provernor general that I mut

HOW THE DESERT BUINS RAIL-RGADS.

As we walked from lathe to lathe and from planing machine to planing machine to planing machine. Capt. Midwinter pointed out some of the pocularities of the wear and tear which the desert has upon railway surerints.

"Here," said he as he pointed to the wheel of an Americal locomotive, in which was cut a groove so deep and wide that I could by my three fingers in it. "Is an example of how the sands ruln our car wheels. The desert is covered with grains as hard as thus. They blow over the rails, and as the cars move they grind cut the steel as though they were emery powder. As a result a wheel's life is short, and we have to cut down its the covery few months. Moreover, the sand gets into the bearings, and there is a continuous wearing which necessitates almost constant repair."

"At three, yes. They come with such violence that they cover the tracks; they darken the sun so that when you are in one you cannot see your hand before your face. They often spring up afar off, and you can watch them coming. At such times the sand gets into everything and grinds its way through all parts of the machinery.

the sand gets into everything and grinds its way through all parts of the

machinery.

"Another thing we have to contend with." continued the railway manager, "is the extraordinary dryness of the air. This shrinks everything connectair. This shrinks everything connected with the road. Our rolling stock has to be tightened up again and again. One of our passenger cars will shrink as much as is inches in one wall alone, and we have to put in extra boards to fill up. This is so as to all sorts of woodwork.

THE DESTRUCTIVE ANT.

"Another trouble is the white ant," Capt. Midwinter continued. "That little termite eats anything wooden. It chews up the justices of our ears and even attreks the furgiture. Where there is the least moleture the ants will go for the railroad dies, and they will also chew out the insides of the wood telegraph poles. They always work in the dark, leaving a thin shell of wood outside. The rought is that a tie or pole may look sound, but all at once it crumbles to pieces. We have to impect the road very carefully at regular intervals and watch out for weak points. We are now using steel shells as ties. They do not make so smooth a road as the wooden ties, but the ants cannot eat them. We are also using steel telegraph poles."

AMERICAN VS. BRITISH LOCO-

AMERICAN VS. BRITISH LOCO-MOTIVES.

"I understand that you have American lecomotives: How compare with those from Great Brit-

places without wetting your feet and there is only water here and there collected in the depressions and pools. These contain hippoporami, crocrodiles, turtles and fish. This is the case for about 150 miles above Atbara.

The great floods begin in July and last until October. Then the waters are about 20 feet deep and they roll down in a great river from a quarter to a half a bille wide. They are of a reddish color and are loaded with the volcante dust of which the Abysainan highlands are made. When the floods come they bring down manses of diffused, upon which are sometimes to be seen the dead bedies of elephants and buffuloes. The waters come with great force, and the Atbara bridge, over which the railroad arosses the river, has to be strong to withstand them.

MADE BY YANKEES.

It seems strange to me when I look at the mighty steel spans which cross the Atbara and rediect that John Bull had to him Uncle Sam to make them for him. The Atbara bridge was constructed by one of our bedge-building companies and was sent here in sec-

DESERT WATER STATIONS.

cugh and business-like way in which the propaganda is organized. Nothing is left to chance and the utmost precautions are taken to prevent the publication of anything which might injure the growth of the movement. Individual Christian Scientists are instructed to make no statements and write no letters for publication which have not been approved by the Christian Science Publication committee for England. Frederick Dixon, an Englishman, who has been a pupil of Mrs. Eddy, is the head of this committee, and he is installed in magnificent offices in Ciun House, Surrey street, off the Strand, and has, as his chief assistant, Capt. Wilkinson, who resigned his commission in the Royal engineers to take up the work. It is one of Mr. Dixon's duties to watch everything that is published about Christian Science and to reply to it and correct k if necessary. onganius and was sent here in sees one and was sent here in sees one at consists of six great steel spans of your chief difficulties, is it not?"

Your clief difficulties is over 300 and the transport of a sharp American business not the plays now attributed to Shakespeare was no other than Henry Wriothesie, third Earl of Southampton."

The bungalow it seems, has converted in the real author of the plays now attributed to Shakespeare was no other

It Was Opened in 1906, and is a New Highway to Central Africa-How it was Built And Queer Features of Travel Upon it-A Talk With its Manager-Deset Railways and How the Sand Cuts the Wheels-American Versus English Locomotives-The Sirdar Chats About New Railroads For the Upper Nile-The Central African Telegraph System-A Look at Port Sudan, The New City on the Red Sea.



THIRD CLASS CAR ON THE NILE AND RED SEA ROAD,

Photographed for the "News" by Frank G. Carpenter.

We are having troucle also in getting a good water supply at Port Sudan. We sank one well to a deuth of 800 feet feet and struck a good flow of fresh water. We had hardly completed it, however, before the salt water from the Rad sea began to seep in, and we are now drilling again. There are some stretches along the route where there is no water whatever. In such places we have to carry our supply with us. For this we have taking of galvanized from, each of which will hold about 1,500 gallons."

TRAVEL ON THE RED SEA RAIL-

(Continued from page sixty-five)

the work of spreading Christian Science are Coh Anstry, who is now second tender at the Second London church, Capt Baynes, who is first reader at the

First church, Major Carter, who is a reader at the Thira church; Col. Hub-bard, who is first reader in Liverpool, and Col. Pell, who is first reader at Fliey. Rear Admiral Dunlop of the

navy is also a convert and the faith is

making great progress among the of-ficers of this service also.

MODERN METHODS.

One of the most amazing things about

the movement in England is the thor-ough and business-like way in which the propaganda is organized. Nothing

GREAT BRTAIN

THE SCIENTISTS IN

tesian wells for our water supply. We have bored a number, but we find that the water in many places is selt. We struck one which had three per cent salt in it, and another in which the water was one per cent salt. Of course such water is useless for our locomotives.

"We are having trouble also in getting a good water supply at Port Sudan. We sank one well to a depth of 800 feet feet and struck a good flow of fresh water. We had hardly completed it, however, before the salt water from the Red sea began to seep water from the StrDAR ON RAILROAD

THE SIRDAR ON RAILROAD BUILDING.

Speaking of the railroad of the Su ver. In such places we have to carver. In such places we have to cary our supply with us. For this we
have taking of galvanized fron, each of
which will hold about 1,500 gallons."

FRAVEL ON THE RED SEA RAILROAD.

"With all this, Capt. Midwinter, can

flows in freely to us from our con-yerts, who are grateful for the bene-fits they have received from our teach-ing. We have never had any difficulty in finding all the money needed for all the work we could undertake, and as our numbers increase our work and the

avallable funds for it will increase in

SOME LARGE CLAIMS.

"Thoughtful people all over England are turning to us. They are beginning to realize that the old churches do not satisfy their spiritual requirements. In the army and navy we are gaining the very pick of the officers from the highly trained fecunical branches, who must be men of sound intellect and education. We are getting the flower of the aristocracy, and

ting the flower of the aristocracy, and we are winning the best of the middle

MYSTERY OF "SHAKES-

MAYNARD EVANS.

PEARE" MAY BE SOLVED (Continued from page sixty-five)

we are winning the

Sea is already increasing our trade, and it will do more as soon as we can bring the cars right into Khartum and Omdurman. We are building a bridge across the Blue Nile, which will carry the road into Khartum, and in the part future. I have we shall have a bridge across the Blue Nike which will carry the road into Khartum, and in the near future, I hope, we shall have a bridge across the White Nile, which will take it down to Omdurman. The road will probably be soon extended into Gezirch, the plain which lies between the White and Blue Niles, and we shall have another extension running off into Kordefan.

"How about railroads from the Sudan to Abyasinia?"

"They will come some time, but whether their building will start from the Sudan or from Abyasinia remains to be seen. There is talk how of extending the railroad which runs from Dilbouth to near Harer clear across Abyasinia and on into the Sudan to Khartum. There are no natural difficulties in the Sudan to prevent such a construction and the same is probably

construction and the same is probably there will be more Christian Scientists, in proportion to the population, in England than in any country in the world," he said to me. "We are gaining ground steadily and lately there has been a veritable boom. Christian Science has attracted every class of society. We have members of the aristocracy, great business men, small shopkeepers, and one of our most earnest adherents is a porter on the underground rallway.

BEG NO MONEY.

"We make no appeal for funds, money flows in freely to us from our converts, who are grateful for the benefits they have received from our teach-

INDIAN SPOOK

SHOOTS HIMSELF (Continued from page sixty-five)

before my eyes exactly as you have described.

"I was terribly distressed at having, all unwittingly, reminded her of such a painful episode, but she reassured me by saying. It is many years ago and I can talk about it new, though I was ill fer months afterwards from the thock."

shock."

"She then told me that her bushand had gone into the bedroom, through the door which we kept closed, and the whole affair coincided exactly with what I had seen, down to the smallest detail. Madame de Bevery spoke very calmiy about her husband, and said that he had been ill and mentally unsound for some time. I heard long afterwards that he was a confirmed drunkard, and had ill-treated her in every way, so that her married life must have been perfect torture, but soft to me."

The hungalow, it seems, had shool

Soft to me."

The hungalow, it seems, had shool emply for some years after the trugedy and had then been proupled only all odd intervals during the cold meather. Mr. and Mrs. 8.— were the first possible who had been in it on July 23, the

true of Abyselnia. It is also a possi-bility of the far future that the rail-roads of the French Congo and those of the Sudan may be joined." Such Africa has almost to Luke it will be only a

THE CAPE TO CAIRO LINE.

THE CAPE TO CAIRO LINE.

'How about the Cape to Cairo road?'

'I donit whether there will be an allcontinuous rail route from Cairo to the
Cape. We shall probably have a
sleam route, and that at no distant
time. The navigation of the White Mile
can be so improved that, by the aid of
short lines of railroads around one or
two places, we could sond steamers
from here to the great lakes of contrai Africa. We are now sending them
as far as Gondokero on the borders of
the Beiglan Congo. We have a monthly
service to that place, and it is over
1,300 miles from Khartum. The trip
there takes about two weeks; and it is
made in comfortable steamers. We
have also steamers going up the Blue
Nile and are gradually exploring the
several branches of the White Nile. Our
steamers on the main stream of the
White Nile are now carrying tourists,
and we have bouts which leave on the
lath of January and lath of February
capacialty adapted to tourist travel.
They are fitted throughout with electric lights, have hot and cold baths
and come good double best cabins.
They carry a sufficient number of stewards and servants to supply comfortable accommodations."

CENTRAL AFRICA'S LONG TELE-

ble accommodations."

CENTRAL AFRICA'S LONG TELE-ORAPH ROUTE.

The sirdar tells me that telegraphic communication is being rapidly opened up along the Sudan part of the Cape to Cairo steam route. Khartum has direct connection with Egypt and through her with all the rest of the world. The wires have been strang from Khartum almost to the Reigian Congo, and by the time this letter is published this place will probably be in direct communication with Entebbe on Lake Victoria, near the source of the Nile. There are now more than 4,000 miles of telegraph working wires in the Sudan; and last year more has 288,000 private telegrams were sent over them. There is one line which goes to Tewnkieh at the junction of the Sobat with the White Nile; and there are now ires going some distance up the Blue Nile. Above Tewfikieh there is a great swamp through which telegrams are carried weekly on small oit launches to another telegraphic station farther

It Beats the Devil.

Should you ask we whence this story Whence these borrowed repetitions, I should answer. I should tell you, "Tis a mystic scene from dreamland. Tis a story not of mortals."

Death had come unto the dreamer, And he tumbled straight to Hades. Headlong, fell through lengues of dark clouds, Whitling on through vapory blackness, Found the iron gates of Hades, Heard the rear of Satan calling

"Come right in my worthy subject, You can now possess your earnings, Long your firm has been ascending. Long your fire has been kindled; You have been my truest subject, You have always done my bidding." On the wall the fire gleamed brightly,

Gleamed the fire on flendish faces, Writhed upon the burning sulphur, Souls condemned to endless torture; Blood red discs appeared their faces, Stench of burning flesh was awful.

Guxed with terror the new comer, Raised his very hair for terror. Shook his bones with mighty quaking, Then his injured pride and Anger Rose above his fear of deamons, "Back! You leering devils!" shouted, "Back! Into your flaming prisons!" "Blast, your flashing pitchfocks point-

Seeking my best cont to puncture,

I was on an upward journey When you hurled me from my path-

way,
When you bellowed forth your slander,
Taunting me with hellish mocking,
Friends of the infernal regions,
I defy your 'cusseed' kingdom;
I demand an explanation!"
Would have answered more, but Satan
Straighteny sangehed the converse. Straightway anakehed the conversa-

tion
"You! A candy maker! 'upward?'
Scarce a dozen year in business,
In your mother's kitchen starting,
In her frying pan beginning,
Owning now a block of buildings,
Itranches, too, in other cities,
Wealth in tens of thousands, clearly,
Not all gain without my methods."

Answer me of weights and measures, Colors and adulterations.
Of pure food laws, how you've used than,
How you've dealt with luckless mer-

Have you always lined your pockets? Have you trampled down the poor man?"

With out father's fame to 'boost' us, They for generations backward Had been famed as caudy makers; Left us all their books and papers, Left us all their priceless journals.

"Of our buildings your bare spose Naught but truth of size and any ber, Printing presses, fine embosing Lighting plant and large makes shops, Packages, we make and printing Other things we cannot make, Quite a city is our factory. Built upon the rock of gentles."

Further speke of his employes,"
Praising well their loyal afferts,
He, in turn, had fried to help their
To an honored place and states,
Sums of stock he'd given graits.
Liberal interests in the hashess.
That his help might share the work.
To attest this love for young toks.

Could have argued on a fortaget Of achievements through seal ment. But old Satan saw his error, "We were told these tabelook By a knocker here in Hades." To a servant—"Find this liar. Toss him on a bed of torture.

Then to Startup once more speaking Then to Startup once more speaking in a tone of great contrition. You're too thrifty for my furnes. You're too green to make good fig. Peter's gates are open to you. Go and join the heaveny chount Fround himself at once transland. To a paractiste landing.

Where the color of the flowert Sweet aroms smoot his neathly. Very like the dature dayons, He had used in making casely. Noticed bappy madens called Bon Bons marked with Startup Print.

Just as he'd anticipated.

This to him was perfect heaves.

Lot The roldstight white was him From a simpler in the office.
From a simpler in the office.
From a Christman flow approach,
Midnight marks the hour of the.
Even the most extension some.
Even the most extension some.
In such cases goes a destination,
the had narged too near the same,
toducing a drama of Rade.
Till fragrant odors, merry when,
From the rooms where aveds for
boiling.
Wafter o'er the weary domine. Wafter o'er the weary dreamen.

Eat Startup's Candy-Angels Do.

The Specialist in **Holiday Goods**

BOWERS

The Low Price **JEWELER**

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In our new quarters we offer the gift-purchasing public the most splendid array of Diamonds, Watches, Jewelry, Silverware, Umbrellas, Fountain Pens, etc. that have ever been exhibited in this city.

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Clocks trom 75c to \$50.00 Gift Clocks selling at . \$1.75 and up

OTHER NOVELTIES Solid Gold Brooches and Pins, \$2.00 and up Solid " Stick Pins . \$1.00 and up

. \$1.00 to \$30.00 Umbrellas . . . Gold Cuff Buttons . . \$2.00 and up

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