THE CHARLOTTETOWN HERALD

Dredging For Gold.

Lawrence Irwell in The Rosary. (Concluded.)

anmotion. The conditions which exist in a much cooler land like New Zosland are, of course, very differen'. There the connirg is open, and most of the roads are good. Coal is used for fuel -se much as a hundred thousand tone a vear. In West Africe, on the other hand, there is enough wood ('rees, etc.), at any rate in Ashenti, to keep fifty dredges working for a least fifty years.

It may be said that steam launch es or tugs will do the transport work satisfactory in West Africa. bat however careful those in charge of a dredge may be in the disposition of tailings, the scattered beaps of worked gravel left behind by a dredge make pavigation very hard in the dry season, while in the we season it is almost impossible to steam against the swift ourrents.

Gold dredges are very much I ke By these boreholes can be discovered dredges that work in barbors and on the depth of 'overburden,' as the river bars, with the difference that mold-saving appliances in the form the depth of gravel lying below the of slaice tables, revolving screene outburden, its richness found by and other apparatus are built into panning the earth thrown up by the their end. They do not propel drill-and the average depth at themselves, bat are moved and -teer- which bed rock is encountered. Rich ed by means of a steel bead, side and patches or flats have probably formstern lines. Each dredge is fi ted ed along the river bank, especially with a steam whinch, by means of in Africa, and these are likely to this and the lines which are tied to give good results, yet allavial gold is experiments and practical experibig trees, a dredge hauls itself for such an elusive thing that a dredge ward or moves from side to side. A which shaves the bank in order to string of buckets, each of from four prospect it while working a river. to seven cubic feet capacity is driven bed, will often miss the rich streak by a main engine, and can dig to a that exists only a few feet inland. depth of as much as forty feet, In tropical countries there is also a while pumps suck from the river good deal of clearing to be done, as which are emptied the contents of water's edge.

the buckets as they come up. These While actually working, the diffitables are about six y feet long, and culties that are met with are someof the mountains, become more fineare laid at snanglo. They are pav- times enough to take all ambition ly divided, even coarse nuggety ed with steel riffl s and coarse mat- out of a conscientious dredgemaster ieces being reduced by attrition to ting, the gold being instrrupted by He has always to be on the look-out microscopic dimensions, and the the former while it is in transit, and for hidden trunks of trees, immense evenness with which the fine particles heli by the latter. In ordinary boulders and other impediments circums ances these riffles and mate which, if dredged carelessly, would are distributed through the gravel are taken up and washed about once put his dredge out of action for a depends entirely upon arbitrary our rents and eddies in the body of water a week. Some modern dredges are considerably period. There is al carrying the material. The profitted with revolving perforated ways a great strain upon machinery screens, into which the gravel is which works a stable object, bat portion of microscopic gold containin placer ground is astonishing ed aud broken up, the gold fallwhich has not itself got a very stable ing through the perforations on to foundation, and in Africa in partic-Black sand from the waste from an the tables, which in this case are im ular the only practicable method of undercurrent or sluice, after all gold had beed extraoted that could be mediately below the screen. dredging makes a stable foundation saved with riffles and quick-silver, This vary brief account of the impossible. Dipper links break, as used in ordinary placer operations, process of gold-getting is ex remely steel obains wear with extraordinary almost always shows the presence incomplete and do-s not ettempt to rapidity, and the engines themselves of microscopic gold. Incomplete describe the prroblems with which are always being subjected to the mining engineer is confronted, sud ten jerks and strains. Indeed, in such matters as the slope of tab- dredging for gold is a much more les and quantity of water required. | arduous procedure in West Africa Mention has been made of New and New Zealand than in California Zeeland as a dredging ground, and and Colorado. In New Zeeland a less than seventy five per cent of all there is little doubt that country crow of eight white men can run a he gold in alluvial deposits, conwas the pioneer in this form of ob- dredge, and the ratio of accidents is sists of atoms so infinitely small as taining gold. In the sixties the small. But in a country like West old-fashioned spoon dredges were at Africs, where the oost of running work there, and since then the sp- dredges is high, and the white crew paratus has steadily improved. In as a rule consists of only four men New Zisland the ' Earnscleugh No. -a dredgemaster and three winch-3' dredge, which is working at the men-natives have to be relied upon modern separator are now extractpresent time, has buckets cach with as greasers and firemen, with the ing this gold and adding it to the a capacity of seven cubic feet. Her result that, where the white man is world's supply of the precious metpantoons are over one hundred unable to supervise everything, the and thirty feet in length, and her bearings often become heated-the width, is thirty feet. She draws boilers have either too much or too seven feet of water, dredges to a little steam in them, and often socidents are far from infrequent and depth of over fifty feet, and by often expensive. means of an elevator, with which In New Zealand one of the greatmost modern dredges are fitted, she est problems with which the dredg-The Irish have a proverb ; 'Cows stacks her tailings to a beight of ing-for-gold industry has up to now far-away wear long horns." A over seventy fet. In New Zaland about two hundred and forty been confronted is commected with young man who held a responsible position at a good salary in the east, the dredging of agricultural land. dredges are working, and some two thousand men are directly employed Some exports consider that it is almost impossible to redeposit topsoil in the industry; to say nothing the lure. He gave up position, home on top of dredged gravel, in sufficient such appernumerary dependents as bickness to make the land available coal carriers, dredge-builders, and men in repairing foundries. When or agricultural purposes almost immediately. All tested methods seem ed to win fortune in the new life. I add that in the country referred to o be impracticable at present. Na-After three years he related his ex. a modern dredge will cost from \$40,000 to \$75,000, an idea will be ture forms, inscrutably and slowly, perience. For half the time he obtained of the importance of this and by means of many contributary worked at his own trade-stationary engineering; for the other half, conditione, a combination of soils branch of mining, a branch which is as hitle known to people outside which we call fertile, and if we mostly rainy or cloudy weather, he the business as any industry in the violently destroy that combination, SAVS : calure's ideas cannot be artifically world. I carried on my unwilling back Itained again in a few weeks or wet lumber, in a sawmill, ten hours In California the separating apmonths. A New Z aland firm nam- a day, at \$2.25 per day. In the parauas of the most modern type o ed McGregor has invested a contrisawmill I had as companions in dredge is mounted on the all-stee vance by which the topsoil is separbody of of a specially adapted shove ated from the gravel, and after passcart op. trucks resting on a railroad ng through an extra shoot redepostrack laid on the bed rock base o ed on top of the gravel. I believe, twenty by twenty-six feet. Th however, that some time must elapse ingly well educated. dipper, called in foreign countries a before the land regains anything bucket, has a capacity of two cubi ike its original value, and there can yards, or over, and a speed limit o s no doubt that the permanent about two per minute. It can swing coounts of prosperity won almost wealth represented by fertile sgrithe whole circle, and can make culturs land must siways be greatout fifty feet wide; it digs, when er and more important than the required, eight teet below the track, value of minerals that can be extract opers and closes automatically at ed from it. the right points, taking in every-Concerning the origin and formething from grass roots to bed-rock If opportunity is denied you hun on of placers, there are a number locluding boulders two and a half In no part of the country theories. One is that the goldfeet in diameter which readily pass does opportunity lie waiting for the bearing mountain tops were convertthrough treatment, and handling He must seek it. He most man. ed into debiis by glacial action, those of five tons weight with ease make it as best he can. . . . You while immense floods, resulting from and celerity. This type of dredge Oregon. Stay where you have friends to lend a band. Don't go where friends can not belo it th will find as many opportunities in melving 'seas of ice.' washed the has a guaranteed capacity of three taousand edbic yards of gravel pe twenty-four hour day; it requires ALCOHO only a fraction of the water neces sary to slaicing devices which water would. Work in the place where may be taken from biliw the level God has placed you --- and then work is almost the worst thing for consumptives. Many of the of the ground being worked and, if some more.-Sacred Heart Review. scarce, may be used over and over "just-as-good" preparations contain as much as 20% of continuously. The cost of operation waries from one and one half t Can you give me a little breakalcohol; Scott's Emulsion three and one half cents per oubic not a drop. Insist on having fast, ma'am? I'm hungry and cold. fast, ma'am? I'm hungry and cold. I slept out of doors last night, and \$1.25. For sale at all dealers or will be yard. The type of dredge is at Scott's Emulsion Aroville, Colorado, and has been describ d in detail by U. S. Geolog: ical Survy. It is also in use on the

lighter soil from the bed-rock, de-An Ancient Foe positing in lieu of it. usually in the form of water worn boulders and HAD VERY BAD Prince Edward Island Railway. To health and happiness is Scrofulaas ugly as ever since time immemorial gravel, this beavier and auriferous It causes bunches in the neck, disfigures the skin, inflames the mucous mountain debris . and on a smaller nembrane, wastes the muscles, weakscale the forces of nature and the ens the bones, reduces the power of elements are continually producing resistance to disease and the capacity similar results. Another theory is for recovery, and develops into conthat placers result from the deposi.

tion of the precious metal by water. "Two of my children had acromia sore in which it was all originally held which kept growing deeper and kept them m going to school for three mos in suspension or solution, and that nts and medicines did no good until gan giving them Hood's Sarsaparilla nedicine caused the sores to heal, and the larger particles and nuggets resulted from the union, by some law he children have shown no signs of scrof-ala since." J. W. McGuns, Woodstock, Ont. not yet fally understood, of a number of these minute atoms; that, Hood's Sarsaparilla instead of being sources, the rich will rid you of it, radically and pereads and orevasses are only the

manently, as it has rid thousands. natural result of infiltration for Pacific Coast, but does not appear to be known ontside the United

States and Ganada Before a dredge claim is definitely taken up and worked, there are many things to be done and con. siderable expense to be incurred. When the existence of payaple gold bas been ascertained, a systematic prospect should be made. By means of such devices as the keystone drill.

a series of boreholes must be sunk. topsoil is called in New Zealand, fractured matrix, and, indeed, the cases in which gold can be seen in its ore, even when the latter is very rich, are few and isolated. It is speaking quite within the limits of

source.

COUGH And Tickling Sensation in Throat. Railway will run as follows : Dr. Wood's Norway Pine Trains Outward

Syrup Cured It. Miss C. Danielson, Bowsman River, Man., writes :- "Last fall I had a very bad cough and a tickling sensation in my throat. It was so bad I could not 4 07 2 54 12 57 countless ages of auriferous water sleep at night, so I went to a druggist and 4 50 3 23 between their walls. This theory told him I wanted something for my cold, bas many earnest supporters, who and he advised me to try Dr. Wood's Norway Pine Syrup which I did, and after quote in substantiation of it the fact taking one bottle I was completely cured. that sea-water is sometimes impreg Let me recommend Dr. Wood's Norwsy nated with gold, and urge that gold Pine Syrup to anyone who suffers from a is pre.eminently a surface metal. cough or throat irritation. Dr. Wood's Norway Pine Syrup is being rarely found, especially in a free state, except at or near the sur- without a doubt one of the greatest cough 4 45 4 15 face. Our present general system and cold remedies on the market to-day, of mining is based upon the idea and so great has been its success there are numerous preparations put up to that gold is mainly coarse, while imitate it. Do not be imposed upon by examination will show that the bigh taking one of these substitutes, but

percentage is in atoms finer than insist on being given "Dr. Wood's" when flour itself. It is a fact that nearly you ask for it. Price, 25 cents a bottle; all lead or vein gold exists in particles put up in a yellow wrapper; three pine trees the trade mark; manufactured only so fine as to be entirely invisible to by The T. Milburn Co., Limited, Toronto, the closest scrutiny of its freshy

When Father Healy was asked years ago what Mr. Healy would be in the first Irish Cabinet, the reply knowledge, derived from extensive old man! was, ' Faith, I think he'll be a very

Yours truly.

ence, to assert that three-fourths of

all the gold found in leads and veins all over the world is much too five MINARD'S LINIMENT Co., LIMITED. to be saved in running water. Of Dear Sira -- We wish to inform course the gold is ground and worn you that we consider your MINstill finer by the crushing, the pul- ARD'S LINIMENT a very superior verizing and distributing processes article, and we use it as a sure reliief and throw a constant stream of water the jangle grows in great profusion of nature necessary to deposit it in for sore throat and chest. When I on to the gold-saving tables, into right down to, and overlapping, the placers, often many miles from its tell you I would not be without it if the price was one dollar a bottle, I

Gold, as it travels from the veins mean it.

CHAS. F. TILTON.

As a birthday present.' Tommy said This drum is hard to beat.' It doesn't sound that way at all, Replied his sister neat.

Read Down Mon Tue Mon Div Wed Thu Wed Ex Fri Sat Fri Sun P.M. P.M. Noon A.M. 2 55 2 00 12 00 7 15 1 32 9 07 3 47 1 58 9 43 4 10 2 20 10 15 4 25 3 00 A.M. 5 23 4 23 6 12 5 39 7 25 7 35

5 51 5 14 7 10 6 20 5 54 5 34 10 6 50 Sat Daily ex Sat & Sur 3 10 3 10 4 03 4 26

5 55 7 00 P.M P.M

Fairville, Sept. 30, 1912.

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Mt. Stewart

St. Peter's

Montague

Ly Charlottetown

Vernon

Ar Georgetown

Ar Souris Ly Cardigan

Ly

Lv

Ly Port Hill

Lv O'Leary

Ar Tignish

8 25

Commencing Jan. 5th, 1912. trains on this Trains Inward Read Up Mon Tue Mon Diy ANUFACTURED B Wed Thu Wed Ex F. MADDIGAN Fri Sat Fri San A.M. A.M. PM. P.M. CHARLOTTETOWN. P.E. 10 10 11 30 1 40 5 15 Ar 8 57 10 35 12 34 4 07 8 10 10 07 11 58 3 23 TRY OUR 9 43 11 27 2 49 9 20 11 00 2 20 9 00 10 35 P.M Home-Made Preserves! 8 01 9 06 7 12 7 53 6 00 6 00 Made from home grown fruit. We have a large AM stock on hand. Sold in Bottles, Pails, and by Ly Charlottetown Ar 10 00 10 55 8 55 8 05 9 30 the lb. 8 21 7 00 7 00 CRANBERRIES 7 39 8 14 7 10 7 45 Ly 6 25 7 00 We have on hand a quantity of good Island Daily ex Sat & Sun Ar 9 35 9 25 Cranberries at 8 cents per quart. 8 25 8 33 Ar Murray Harbor Lv 600 640 A.M A.M A FULL LINE OF G. A. SHARP Supt. P. E. I. Railway. CHRISTMAS SUPPLIES On hand, including Raisins, Currants, Extracts,

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to do so, It is blended especially for our trade, and our sales on it show a continued increase. Price 25 cents per lb.

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Don't let worms gnaw at the vitals your children. Give them Dr. Low's 'leasant Worm Syrup and they'll soon he rid of these parasites. Price 250.

tests of surface gravel below the Jack, Dolly told me the most mills at Black Hawk, Colorado, inexciting secret, and make me vow dicated that nine tenths of the gold never to breathe it to a living soul.' was of microscopic fineness. The 'Well, hurry up with it. I'm late truth is that the bulk, certainly not for the office now:'

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to be not only entirely unsavable by Milburn's Sterling Headache Powany of the devices employed in the ders give women prompt relief from past, but, excepting perhaps a very monthly pains, and leave no bad small perceptage, invisible to the after effects whatever. Be sure you human eye. The dredge and the get Milburn's. Price 25 and 50 cts

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a frost-bitten pose,

listened to tales of the 'golden' West until at last he succumbed to and friends, and with his savings and a large supply of hope he essay. Pills. Price a box yoc.

> happen to be thrown out of work ?' I got out,' replied Weary Willie with dignity. 'didn't have to be thrown out.'

> > When the heart begins to beat irregu-

larly, palpitate and throb, beats fast for

stop, it causes great anxiety and alarm.

When the heart does this many people are

Mrs. John J. Downey, New Glasgow, J.S., writes:-"Just a few lines to let

N.S., writes:---''Just a few lines to let you know what your Milburn's Heart and Nerve Pills have done for me. I was troubled with weakness and palpi-iation of the heart, would have severe choking spells, and could scarcely lie down at all. I tried many remedies,

but got none to answer my case like your Pills. I can recommend them highly to all having heart or nerve troubles."

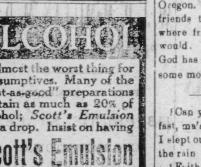
mailed direct on receipt of price by The T. Milburn Co., Limited, Toronte,

a time, then so slow as to seem almost to

Dandruff.

misery men of nearly all trades and Mary Ovington, Jasper, Ont Gallings, including bookkeepers writes ;- "My mother had a badly olerks, stenographers, teachers, and sprained arm. Nothing we used one lawyer, many of them exceeddid her any good. Then father got Hagyard's Yellow Oil and it To other young men who ar cured mother's arm in a few days. empted as he was by the glowing Price 25 cents."

without effort, -any where but where they are-the disillusioned fortuneeker gives the warning ;----Stay where you are known and where you understand conditions.



the rain came down in sheets." "Faith, me mon, you should have got in between the sheets, then."

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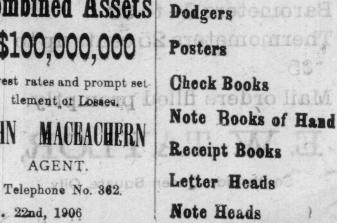


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