

# THE AMADOR LEDGER.

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## GEOLOGY OF RIVER CHANNELS

### The Great River Channel of California.

### THE FAMOUS DEPOSITS OF WEALTH IN THEM

### This Great Gravel Bed, the Channels and Drifts Run North and South.

[By J. A. FAULL.]

MR. EDITOR:—I will, with your permission, occupy a little space in your valuable paper. In the present instance I might quote the ancient aphorism: "Pools rush in where angels fear to tread." This effort is being made with a full knowledge of what it portends, but not until after having spent upwards of forty years in making investigations and traveling the length and breadth of the continent more than once, and not this continent alone, have I come to a positive opinion and am prepared to deal with facts. To the unprejudiced mind these facts may appear. It cannot do any harm if it does not do any good. It may stimulate investigation from a new standpoint.

I will begin with this assertion—that what is and has been known as the Great River Channel of California, and which has yielded millions of dollars of gold, is not a river in the sense in which we have been led to believe. When these channels are spoken of they have been called eocene, miocene and pliocene. Using the language of Professor Lyle, that great thinker and investigator, who has copied the Greek term to convey to the mind the significance of his language—"the dawn, the recent, less recent and the more recent." These terms are made use of in order to impress upon the mind the geologist's idea of time or epoch or period in the world's history. Some students think that this river system consisted of river channels in the ancient sea before the uplift of our continent. Others have claimed with equal force that these great gold-bearing channels were rivers coursing north and south after the main chain appeared above the ancient sea; holding, of course, that gold was formed from some pre-existing rocks.

We now come to the question—from whence came these channels and what are they, and how came they in the position in which we now find them? To gain an intelligent answer we must look at things as they are. In the first instance, we find this great gravel bed and the channels and drifts running along the edge of the main mountain chain in a northerly and southerly direction with what appears to be numerous arms running almost due east and west, being crossed by the present river system in its course from the snow-clad mountains to the sea.

If we look at the channel's course and then at the trend of the present rivers we find that they cross at almost right angles, cutting through and carrying away great areas of gravel, which is found deposited in various forms along their course, such as bars, benches, small channels, ravines and wide areas of deposit upon an uneven bedrock. The ravines form a fill from the force of the surrounding waters. I will instance for my present purpose the Clear Creek district in Shasta county between Lassen's Butte on the one hand and the Trinity Range on the other. The great gravel channel of the east has been broken and swept away from its north and south course at this point. If we examine this section we find French Gulch a very rich deposit of loose gravel, Clear Creek, South Fork, Mule Creek, Horse Town, Red Hill, Igo, Hardscrabble, Eagle Creek, Lower Cottonwood, Begum, Dry Creek and Hay Fork of the Trinity, extending to the herein mentioned points and covering 220,000 acres of land, at some points looking like river channels, again showing as it were escarpments, at other times covering vast areas of uneven, but gentle, sloping bedrock, the bedrock slate, granite, sandstone and oftentimes clay, where the bedrock is slate the gravel is blue; hence called the blue lead.

Where the bedrock is granite the gravel shows a reddish color. This is caused, doubtless, by the iron in the decomposed mica. Some of the ravines have been rich, others very poor; the whole district being known to miners as very spotted and uneven. This is one point. Now let us turn our attention to the channel where it has not been swept away from the higher Sierra. We will take Sierra county as an initial point where the drift mining has been carried on in the blue gravel channel, and here let me note that it was the deposit and drift mines of this county, such as those at Forest City, Wet Ravine, Rabbit Creek and Port Wine, and other points that might be mentioned, that the name Blue Lead got its cognomen. The North, South and Middle Yubas were formed by glacial rivers carrying their gravel deposits along their line, depositing their wealth at Moore's Flat, Chipps' Flat and other points along the line of its waters, which can be seen by examination.

The sloping nature of the land from the mountains to the sea averages about 75 degrees. All this we must take into account in the study of this subject. You ask me the question: Whence came the lava which is found on the top of these gravel beds, generally known as channels? My answer is, look carefully where the mountains to

the east are granite, the lava is whitish, gritty and sand-like in nature, so soft that it can be cut with a knife. At other times it can be formed into blocks by hand, usually where the mountains have been diked, as they often have been.

The overburden or cap is conglomerate, cement, pudding stone, and in fact, almost every kind of mixture, all of which may be accounted for by a careful study of the mountain chain. I will here instance the great arm between the South Yuba and Bear creek in Nevada county. On the Deer creek side of this ridge the covering is conglomerate, under which is a layer of pipe clay. At times this is crystallized; at other times, soft and tenacious, as tenacious as putty, under which are found seams of white gravel, streaks of red and blue, all of which are washed uneven in form and looking very much like the sand found on the ocean beach. The gold found in these lines is very fine; sometimes scarcely and often adhering to the soft granular bedrock. At a mound called Sugar Loaf the waters of the glacier itself appear to have split and broken away from its east and west course, making rich deposits in Deer Creek, Wood's Ravine, American Hill, Oregon Hill and Wet Hill on the one hand, and Shelby Flat, Rush creek and Cement Hill on the other.

Now we will turn to the great arms of the Yubas, where in its east and west course it is traceable for thirty-eight miles up to the main north and south channel. Again you ask the question as before, is it the result of a glacial moraine? We will now turn our attention to the arm in Placer county at the foot of the ridge near Rocklin in the Sacramento Valley extending up to the Blue Canon, the edge of the mountain slope which we find between the Bear river and the north branch of the American river. Along this line there are many claims, many so called channels of greater or less width. I make use of the local terms in order that your readers may understand the position I take in this article. Many of the ravines drop into the American on the one hand and into the Bear river on the other.

[To be continued next week.]

Moki Tea positively cures sick headache, indigestion and constipation. A delightful herb drink. Removes all eruptions of the skin, producing a perfect complexion, or money refunded. 25 cents and 50 cents. Sold by A. Goldner.

Scotch as She Is Wrote.

Mrs. Hohmboddie—What are you reading that absorbs you so?

Mr. Hohmboddie (looking up from his book)—It is a new Scotch novel.

Mrs. Hohmboddie (with enthusiasm)—Oh, I am so fond of those dear dialect things! Do read me a little.

Mr. Hohmboddie (reading)—"Ye see, Elsie," said Duncan doocely, "I might ha mair the matter wi' me than ye wad be spierin. Airlins me een is a bit dazillt an' am hearin' the poolies thuddin in me ears an' ma tongue in clavin when it sud be gaein, an' div ye no' hear the dirlin o' my hairt an' feel the shakin o' me bond this day gien I gat a glimpse o' ye, sair hirplin like an' a steer morn' div ye nae guess what's a' the auld, hinneo, wi' out me gaein it mair words?"

Mrs. Hohmboddie—Stop, for goodness' sake! What in the world is the creature trying to say?

Mr. Hohmboddie—He's making a declaration of love.

Mrs. Hohmboddie—A declaration of love! I thought he was telling a lot of symptoms to his doctor.—Collier's Weekly.

F. B. Thirkield, Health Inspector of Chicago, says: "Kolik Dyspepsia Cure cannot be recommended too highly. It cured me of severe dyspepsia." It cured me of severe dyspepsia. It digests what you eat and cure indigestion, heartburn and all forms of dyspepsia. City Pharmacy.

Immense Stables.

Job, the afflicted and patient, did not, as far as records show, possess a single horse, though his herds of oxen were immense and probably more than any man has at this day. Solomon, on the other hand, had no less than 4000 stables, 40,000 stalls and 12,000 horses, which are understood to have been coaxed for his populous harem. There are, perhaps, a few ranches in the northwest of Mexico whose owners come near rivaling Solomon in the number of their horses, but the money value of these Mexican mustangs would not exceed \$10 to \$15 per head, while we are informed that Solomon paid 160 shekels (\$93) for a horse, which would indicate that his steeds were of a superior class and probably of the kind that aroused the admiration of Habbakuk,—"swifter than leopards" which "fly as the eagle hasteth to eat."

Sick Headaches.

The curse of overworked womanhood, are quickly and surely cured by Karl's Clover Root Tea. The great blood-purifier and tissue-builder. Money refunded if A. Goldner, the Druggist.

Bible or Shakespeare? A gentleman from a neighboring town in Mississippi told the following: "I walked into a small store the other day and found the proprietor lying on the counter just dozing off into a sleep. He roused himself on my approach, and, jumping to the floor, quoted the familiar line: "'A horse! A horse! My kingdom for a horse!'"

"Where did you get that?" I asked. "Oh, don't you know? That's what Absalom said when his horse ran under the tree and left him hanging by the hair to a limb. I thought everybody knew where that came from."—Memphis Scimitar.

A nobby new line of fall and winter footwear at Peterson's, Webb block.

## OUR NEIGHBORING COUNTIES

### Calaveras County Produces Some Newsy Items.

### SUTTER CREEK BOY MARRIED AT PLACERVILLE

### H. B. Jarboe Falls Down a Shaft One Hundred and Thirty-five Feet and Is Killed.

CALAVERAS COUNTY.

Prospect, San Andreas, January 27th.

Last Tuesday evening a shepherd dog belonging to J. C. Marshall of this place fell into an abandoned shaft about thirty feet deep, at Yacoule Camp. There was considerable water in the hole, but fortunately for the animal there was a small drift at or near the water level, into which the dog climbed and thus saved himself from drowning. The next morning, with the necessary assistance, August Winkler was lowered into the shaft and the dog was secured and hoisted to the surface. It had sustained no injury by the fall.

There was quite a crowd at the race track last Wednesday, the occasion being a horse race between an animal backed by Bret Morgan and one entered by Frank Gournay. Morgan's horse won the race in 44 seconds. The distance was three-fourths of a mile. Ed Taylor rode Morgan's animal and Colombo Gozzolo Gournay's. Considerable money changed hands on the outcome.

Miss Lettie Hunting of Jackson, who has been visiting her sister, Mrs. Wm. O'Neill, returned to her home Tuesday last.

C. D. Ham of West Point, was in Jackson last week.

Judge J. F. Davis of Jackson, was in town this week on the Nevills-Moore case, which has been transferred from Amador county. He was perfecting an appeal.

Chronicle, Mokelumne Hill, January 27th.

A. H. McCarthy of West Point, was in town during the week. Mr. McCarthy has disposed of his interest in the lumber business to his partner, Mr. Bruce.

J. K. Carpenter, who is largely interested in mining operations in this vicinity, has been visible on our streets during the week.

Mr. and Mrs. C. S. Peek left Tuesday morning for South Dakota on a visit to relatives and friends.

Citizen, San Andreas, January 27th.

John Raggio of Murphys, a brother of Vio Raggio of this town, was registered at the Metropolitan Hotel on Monday with his bride, en route to San Francisco, on his bridal tour. Mrs. Raggio was a Miss Malaspina, of a family well known throughout the county.

A nine-year-old boy named Almond Way, who had been running wild about Jenny Lind for some time and whose father lives in Stockton, some time ago made a deadly assault on a son of J. P. Alter, by stabbing him in the back with a knife. The wound was a serious one, but young Alter has fully recovered from it. District Attorney McCorsley went to Jenny Lind to try the boy for his offense, but on account of the lad's age, the father, on promising to care for the boy, was allowed to take him out of the county. He left for Stockton with his son that night.

John R. Huberty, wife and two children, accompanied by Huberty's sister, were over from Jackson on Monday, to assist in celebrating Milkman Huberty's seventy-first birthday. There was a grand reunion at the Huberty ranch, near town, on the occasion.

D. Gutmann of the Ford and Sheep Ranch mines, has been spending a week or ten days on his properties in Calaveras county.

G. G. Fraser, representing a San Francisco house, and also a director of the Ford mine, spent a few days in San Andreas during the early part of the week.

EL DORADO COUNTY.

Nugget, Placerville, January 27th.

William Harvey of Sutter Creek was married yesterday to Eliza J. Enner of this city. The bride is a daughter of Mr. and Mrs. Higgins of Placerville and a sister to Mrs. G. W. Blakeney. The wedding took place at 1 o'clock yesterday afternoon at the residence of Mr. Higgins. The Rev. E. H. McKay performed the ceremony.

John Stevenson of Marysville, stepfather of Mrs. H. H. Walling of this city, died on the 21st inst.

The road between the railroad and Hangtown Creek bridge is being graded and repaired. The railroad is sharing the expense with the county.

Miss Gladys McCauley, who has been visiting her uncle, C. P. Winchell, all winter, was called home to Ione to assist in taking care of her brother-in-law, Dr. Adams, who had his leg broken during the recent fire there.

While Miss Mary Murphy was driving to Placerville from Kelsey last night her horse went up on a bank and overturned the buggy tipping her out. She was not injured.

Democrat, Placerville, January 27th.

Mr. Simas of Sutter Creek is visiting relatives here.

Quite a lot of freight is being shipped to Latrobe for Plymouth and Oleta. Mr. William Duden, our affable agent,

## HE RESIDED IN A TUNNEL

### Recovered Goods Identified as Stolen Articles.

### BUSH GREETED WITH FIVE FELONY CHARGES

### Foot-prints Leading Into and Out of the Tunnel Aroused the Suspicion of the Officers.

TUOLUMNE COUNTY.

Independent, Sonora, January 27th.

H. B. Jarboe, a miner about twenty-eight years of age, was killed in the Shawmut mine, near Jacksonville, Friday morning by falling down the shaft a distance of about 135 feet. The deceased was climbing the ladder when he must have fainted from exhaustion or heart failure, and, losing his hold, took the fearful plunge which ended in death. He was a single man and arrived here three or four months ago from Placerville.

Coroner C. H. Burden was notified and an inquest was held at the mine Friday.

The taxpayers of the Angels school district have called a mass meeting for January 31st to vote \$1500 in bonds to build a new schoolhouse.

A. L. Gilchrist of the mining bureau and assay office took a trip throughout the mines of the county last week. He reports the industry in a very prosperous condition with many new mines being developed.

Your Face

Shows the state of your feelings and the state of your health as well. Impure blood makes itself apparent in a pale and sallow complexion, pimples and skin eruptions. If you are feeling weak and worn out and do not have a health appearance you should try Aker's Blood Elixir. It cures all blood diseases where cheap sarsaparilla and so-called blood purifiers fail; knowing this we sell every bottle on a positive guarantee. Sold by A. Goldner.

SCIENTIFIC MISCELLANY.

Variations of the Compass Explained—Retaining Walls.

It may be of interest to many readers of this paper to know what is meant by "magnetic variations," which occur in all surveys' field notes of surveys, and, consequently, may be used in the very deed that gives title to your home or mine or other property.

The expression means that the magnetic needle varies east or west from the true north and south line or meridian. The reason for this variation is that the magnetic pole and axial pole of the earth do not coincide. It is possible to get into such a place that the two poles will be in the same line.

A meridian circle passing through such place and the magnetic and axial poles is called the "Line of no variation." This line passes across the United States from the region of Lake Superior to the coast of South Carolina. It will be readily seen, therefore, that an observer with the magnetic compass must make allowance for this variation when making surveys on either side of this line. In California, the magnetic needle pointing to the north magnetic pole, varies about 17 degrees to the east of the true meridian passing through the pole; hence, 17 degrees (or thereabout) east; while a surveyor in Maine would say magnetic variation 8 or 10 degrees west. There are other local variations at certain times and places, due to the presence of iron ore or traprock, and at times to certain electrical conditions.

RETAINING WALLS.

A few words in regard to the science of building walls for the retaining of earth or rock to be deposited against them may not be amiss, inasmuch as one need only walk along some of the streets of Jackson, or almost any one of these mountain towns, and observe the bulging faces of such walls to know that they were improperly built, or at least not scientifically built. Such walls should be made with the same skill as is used by engineers in building abutments for roads, railroads and the like. Without going into details we might state this as a general rule, modified somewhat by the character of material used for "backing." "The base should be made from 30% to 50% of the height of the wall." This may be made less where the wall is backed against rock in place or undisturbed earth not mingled with beds of clay.

The observation of this rule in the building of front walls along the upper sides of streets on hillside lots would result in more permanent and more beautiful walls than many that are seen every day.

What Is Shiloh?

A grand old Remedy for Coughs, Colds and Consumption: used through the world for half a century, has cured innumerable cases of in-cipient consumption and relieved many in advanced stages. If you are not satisfied with the results we will refund your money. Price, 35c, 50c and \$1. For sale by A. Goldner, the Druggist.

The Niagara Falls.

The Niagara falls were discovered in 1678, and they have receded seventy-five feet in 175 years. The height of the American falls is 164 feet; of the Horseshoe falls 158 feet.

Only once since the discovery of the Niagara falls have they been known to be dry. This extraordinary thing happened March 31, 1848, and was caused by an ice-jam in the river between Buffalo and the Canada side. It lasted but a day. A strong east wind was blowing which drove the waters of Lake Erie to the west side. A lady walked from Table Rock about one-third of the way towards Goat Island.

Quoted the Bible.

Willy.—"I met our new minister on my way to Sunday-school, mamma, and he asked me if I ever played marbles on Sunday."

Mother.—"H'm—and what did you say to that?"

Willy.—"I said, 'Got thee behind me, Satan,' and walked right off and left him."

PIONEER FLOUR is the same yesterday, today and tomorrow.

## HE RESIDED IN A TUNNEL

### Recovered Goods Identified as Stolen Articles.

### BUSH GREETED WITH FIVE FELONY CHARGES

### Foot-prints Leading Into and Out of the Tunnel Aroused the Suspicion of the Officers.

Many a Lover

Has turned with disgust from an otherwise lovely girl with an offensive breath. Her Klover Root Tea purifies the breath by its action on the bowels, etc., as nothing else will. Sold for years on an absolute guarantee. Price 35c and 50c. For sale by A. Goldner, the Druggist.

Two Railroad Passes.

When its limited express trains were put on some years ago, the Lake Shore Railway Company decided to charge extra for the privilege of riding on them, and John Newell, who was president of the system at that time, gave orders that the passes, half-rate tickets, etc., should not be honored on the "flyers." It was not intended, of course, that the complimentary issued to high officials of other roads should be void on the fast trains, but through an oversight a yearly pass was sent to D. W. Caldwell, president of the Nickel Plate, which bore on its face the words:

"Not good on Lake Shore limited trains."

A few days after Mr. Caldwell's pass had been issued Mr. Newell received an annual pass on the Nickel Plate with the following indorsement:

"Not good on passenger trains."

Messrs. Newell and Caldwell remained consistent enemies until the former died and was succeeded by the latter as president of Lake Shore.—Chicago Times-Herald.

Acker's Dyspepsia Tablets are sold on a positive guarantee. Cures heartburn, raising of the food, distress after eating or any form of dyspepsia. One little tablet gives immediate relief; 35 cents and 50 cents. Sold by A. Goldner.

A Series of Titles

An exchange suggests that the next Thanksgiving proclamation may be signed, "William McKinley, President of the United States, Emperor of the Philippines, King of Samoa, Archduke of the Sandwich Islands, Grand Dato of the Sulus and Gezeba of Guam." Well, what of it? It would not imply any greater power than he now exercises. Why not have powers of officials properly defined?—Mound City (Kan.) Standard.

Young Mothers.

Croup is the terror of thousands of young mothers, because its outbreak is so agonizing and frequently fatal. Shiloh's Cough and Consumption Cure acts like magic in cases of Croup. It has never been known to fail. The worst cases relieved immediately. Price, 35c, 50c and \$1. For sale by A. Goldner, the Druggist.

His Happiest Day.

Bacon—"Let me shake your hand, dear boy; this is one of the happy days of your life."

Egbert—"You're not previous, old man. I'm not to be married until tomorrow."

Bacon—"That's what I say. This is one of the happy days of your life."

MISCELLANEOUS.

SAFE DEPOSIT—Safe deposit boxes can be rented from the Bank of Amador County at the small expense of 35 cents a month, thereby securing you against any possible loss from fire or otherwise. Don't overlook this opportunity of protecting your valuables.

SAVE MONEY—Patronize a home institution. Send money away through the Bank of Amador County; you will save 10 per cent and upward over postoffice or express. Money sent to all parts of the United States and also all parts of the world. We have the latest quotations on foreign exchange.

SAVE MONEY—It doesn't cost anything to deposit money in the Bank of Amador County. They receive deposits from \$5 up. Commence the new year by opening up a bank account. A man or woman with a bank account has a financial standing. Don't bury your money; when you die it can't be found and you are liable to be robbed while alive.

It's Not Expensive

It's the quality that's high in Tea Garden Drops, Peppermint, Maple Syrup and Pelican Louisiana Molasses.

For sale by first-class grocers in cans only. Money refunded if the goods are not satisfactory. Don't accept an imitation. See that the manufacturer's name is lithographed on every can.

Pacific Coast Syrup Company 717 1/2 Broadway street, San Francisco

L. A. KENT

Blacksmith Wagonmaker and Horseshoer

CARRIAGE PAINTING AND GENERAL SMITHING. Repairing and painting of all kinds of machinery made at the shortest notice. We desire to call the attention of blacksmiths and other workers in iron to the fact that we keep constantly on hand a large and complete stock of bar, refined and Norway iron, gas pipe, gas fittings, etc., which we will sell at the LOWEST CASH PRICES.

A. LIEBHARDT

UPHOLSTERER AND CARPETLAYER

Water Street, Jackson

PARLOR SUITS, LOUNGES AND MATRESSES made to order and repaired. Carpets taken up and relaid.

PLYMOUTH-JACKSON

DAILY STAGE LINE

Leaves Plymouth 6:30 a. m. Leaves Jackson 8:30 p. m.

JOHN STEINER, Proprietor

## MISCELLANEOUS.

### THE COFFEE HOUSE

### Basement of the Webb Building

### Everything New, Neat and Clean

### MEALS SERVED AT ALL HOURS

THE BEST THE MARKET AFFORDS ALWAYS ON HAND

Guests treated with consideration and respect at all times.

Best Liquors and Cigars at the Bar

HAMBREIC & CARLEY

North Main Street Jackson

ENTERPRISE

STABLE

The Best of Care Taken of Transient Stock

Gentle Horses

Splendid Vehicles and the Best Equipment of All Kinds

Prices Reasonable

M. A. MAILS

For the Best Assortment of

Dry Goods

SHOES

Furnishing Goods

Of All Kinds For Ladies and Children At the Lowest Prices

GO TO—

M. A. MAILS

Sutter Creek

E. MARRE & BRO.

Wholesale Dealers and Jobbers in Imported and Domestic

Wines, Liquors, Cigars

JACKSON, CAL.

DISTRIBUTING AGENTS FOR J. F. Martell Cognac, Moet & Chandon, White Seal and Private Reserve Champagne; Morgan Bros., Puerto de Santa Maria Sherries; Royal Wines Company, Oporto, Port Wines; Dubois Freres, Bordeaux; Claret and Sauternes; CANADIAN CLUB WHISKY, Hiram Walker & Sons, Limited, Walkerville, Ontario, Canada; John de Kaye & Zoon, Rotterdam, Gin; Gilka Kuummel, from J. A. Gilka, Berlin; Bartholomew Brewery Company, Rochester, N. Y.; Knickerbocker Beer; Doghead Brand of Guinness' Stout and Bass' Ale (bottled by Read Bros., London); Cantrell & Cochran, Belfast, Ginger Ale; Nalgie Brandy; Reimported American Whiskies.

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