0000000000000000

done in the Klondike country has been on to any extent. what is known as placer mining. This is the simplest and oldest form of mining, and is usually adopted in new gold fields. In its crudest form, placer mining is simply the picking up of a panful of dirt from the bed of a stream where gold is supposed to exist, the washing away of the dirt and pebbles and the gathering of the gold. hich, because of its weight, sinks to

the bottom of the pan.

For example, let us follow a prospector on some stream in our Western gold fields, where the complication of eternally frozen ground does not enter into the question. After traveling perhaps many weary days he comes on a stream coming down some moun-tain gorge that looks "likely," as he says, to his practiced eye. He stops and examines the pebbles on the bot-tom, and finds a good many of them are of quartz.

This, although not in itself an indication of gold, is a good sign, so the prospector scrapes away the earth and stones at the bottom of the stream to the depth of a foot or so, and then



TWO TYPICAL KLONDIKERS IN PULL DRESS

takes out a panful of dirt. The pan, by the way, is nothing but a broad, shallow dish of strong sheet iron.

Having done this, he puts in enough water to make the panful semi-liquid, and then gives it a rapid, twirling motion. This causes the gold, if there is any, to sink to the bottom of the pan. en the gravel and sand are carefully Then the gravel and sand are carefully washed out until only the heavy residue remains in the pan. This residue is carefully examined to see how many "colors" there are in it. "Colors" is the term miners give to the particles or nuggets, if there are any, of gold that can be seen at the bottom of the

But gold is not the only thing that sinks to the bottom of the pan. Al-most always there is found with gold a most always there is found with gold a gravel from rim rock to rim rock. Most of the creeks up there have a slight fall with wide bottoms. Bedsparated. Of course, if the gold is in nuggets of any size this is a simple process, but if it is in fine dust, as is enerally the case, the mercury pro-

cess is employed.

**0000000000000000000** So far all the mining that has been | to shorten it where it was to be carried

> The first step in advance in place mining is the use of the "rocker." The rocker looks like one of the old cradles we find once in a while in the attic of some old house up in the country. It is a box about three feet long and two feet wide, placed on rockers just like a cradle. A part of the box is covered with a piece of heavy sheet iron, placed a few inches below the top and punched full of holes about a quarter of an inch in diameter. The bottom of the rest of the box slants towards the lower end and is covered with a piece of woolen blanket. To-wards the end of the box slats are placed across, with mercury behind them, to catch what gold gets by

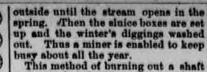
> The miner sets up his rocker near the stream and piles his gravel on the the sheet iron, keeping it wet all the while and keeping the rocker in motion. The fine gold and sand sift through to the blanket, while nuggets of any size remain on the iron. The finer gold remain on the iron. The finer gold settles on the blanket and the dust is caught by the mercury behind the slats. The blanket is frequently rinsed in a barrel of water with mercury at the bottom, and this mercury, together with that behind the slats, is "roasted" as in the other method.

> But even this method is not used when "sluicing" is possible, as it is when the stream has sufficient fall. In sluicing a number of long boxes are made which fit into each other like a stovepipe. Across these boxes slats are placed with mercury behind them, or sometimes the bottoms are bored full of holes and mercury placed under-neath. A long line of these boxes is placed at a considerable slant and the miner shovels his gravel in at the upper end, lets the water run down the sluice and the gold, if in nuggets, sinks and is held by the slats, or, if fine, is caught by the mercury. Three times as much gold can be washed out in this way as by a rocker, because three times as much dirt can be washed. And after the boxes are all done with they are burned and the ashes washed for the gold held by the wood.

> These are the various methods of placer mining and thus they are prac-tised in the Klondike region, hampered only by the natural conditions of the country. Let us now look for a mo-ment at what these conditions compel

the Klondike miner to do. Let us suppose the gold-hunter has passed through the difficult journey and arrived at the gold fields. He first goes out and prospects until he finds a claim where the "colors" in his pan encourage him to locate. If he should happen to be early on a new field he would probably stake out a claim next would probably stake out a claim next to one that was already paying in the hope that his would pay, too. A Klondike claim is supposed to be laid out 500 feet long parallel with the general direction of the creek, and 666 feet crosswise, the idea being to give each location the width of the

Of course, the great difficulty that the miner has to contend with is the In this the residue in the pan is fact that the ground is frozen solid placed in a barrel with some water and about all the year, and even in summer



and tunnels is by no means new, for it has been carried on for many years in the basins of the Amoor and Lena Rivers in Siberia, where the conditions are very similar to those in the Klon-

risburg. Later it was changed to Bookwell and then to Juneau, which name it still holds. This last christening took place in 1881.

ing took place in 1881.

The next year both placer and quartz mines were discovered on Douglas Island, about four miles from Juneau. These are now the famous Treadwell mines, having been bought by John Treadwell in 1884, and, says Mr. Coolidge, "from these enough ore has been taken out to pay the purchase



1. THAWING OUT THE DIRT.

Placer mining in Alaska differs from placer mining in warmer climates only in that the dirt has to be thawed out, and that water for washing can be obtained there only a month or two in

And even when bedrock is reached it is in many cases filled with cracks and seams which are rich in gold and well worth the digging out. As to the value of explosives in this frozen soil authorities differ. The Mining and Scientific Press said recently that they can be used effectively, while the Mining and Engineering Journal, in speaking of the Siberian mines, where the conditions are similar, says their effect is simply to mat the ground together harder. For this same reason, says the latter journal, the ground cannot be dug with a pick and shovel until thawed out.

Lumber, by the way, in the Klondike country, fit for sluice boxes, costs from \$130 to \$150 a thousand feet.

So far most of the gold found in placer mining in the Klondike region



A SLUICE BOX.

has been coarse, and many of the nuggets have been found attached quartz. This, according to experts, indicates that the veins from which it originates are not far distant from the alluvial deposits. Placer gold is lib-erated by the crosive agencies of ice, rocks and water from the rock matrix in which it is held. It is tougher than the rock which holds it and resists abrasion better. Drawing an inference from other regions where placer gold has been found in large quantities, it is reasonable to expect that in the Yukon country rich gold lodes will be

And this brings us to the subject of quartz mining in Alaska, for the gold-bearing region up there is by no means confined to the Klondike country. According to the recently published hand-book on "Klondike," written by L. A. Coolidge, of Washington, there are in southeastern Alaska gold mines which have been worked for the past twelve years, and which in 1895 added over \$2,000,000 to the gold surplus of the world. Of this mining region Juneau is the centre, and its discovery is shared by Richard Harris and Joseph Juneau. In 1880 fheee two men started out from Sitks—it was in the ground thawed a little ways. This is then dug out; another fire is built in the hole, and this process is continued until bedrock is reached. Then fires are built against the side of the shaft, and drifts and tunnels are the west out.

All the dirt thus taken out is piled And this brings us to the subject of

money of Alaska and more." The ore of these mines average only from \$2.50 to \$3 a ton, but owing to the enormous scale on which they are worked and the low cost of extracting the ore there is a large profit in working them. All around Juneau and, for that mat-ter, all along the Alaskan coast, gold-

2. DIGGING AND DUMPING.



MINER TESTING GRAVED

bearing quartz is found, and in many places is being profitably worked.

There seems to be little doubt among

mining experts that extensive quartz mines will be located in this Yukon country before long. This will mean the introduction into that country of all sorts of improved mining machin-ery, rock drills, stamp mills and so on. Just what method will be employed to extract the ore from the rock will de-pend on what kind of ore is found. It may only have to be crushed, and separated by mercury. It may be re-fractory ore and have to go through some one of the various processes now in use for separating such ore.

As soon as the mines are found means of transporting the machinery will be provided and the mines will be started. Mines in rock, of course, will started. Mines in rock, of course, will not be delayed by the weather conditions which make placer mining so difficult in that country, Rock doesn't freeze and the deeper down the mines go the warmer it will get, so perhaps this kind of mining will be the pleas-

Boats Like Big Baskets.

Curious boats which look like big baskets are used in Busrah, the Venice of Turkish Arabia. As a matter of fact, they are practically baskets, be-ing made of wickerwork, plastered to keep out the water. They are known as gophers, and the European who boards them feels himself to be much like the three men of Gotham who went to sea in a bowl. Until comparatively recent times a boat something similar in shape and made with the same material, called coracles, were used by fishermen on many of the turbulent streams in Wales. Noother form of a boat could hope to survive the navigation of those streams, and



WICKER BOATS OF TURKISH ARABIA.

bumping against bowlders and drop-ping over small cataracts in them did hem no material damage.

In China certain literary degrees car be purchased of the Government for about \$75. Taking advantage of that act, some unprincipled person has ately hoaxed the Celestials by selling hem what purported to be diplomas hich would bring the holders under he jurisdiction of foreign consular fices,

A BRAVE WOMAN.

Follows a Persistent Tramp With a Revolver Who Threatened to Burn the House

Mrs. C. L. Reagie, wife of a wealthy oil producer living five miles east of Sandy Lake, was alone in the house the other evening when an insolent tramp demanded admission. She drove him away with a revolver and followed him to the gate. The tramp was mad and threatened to burn the house. An hour later he came sneaking back. She seized the revolver again and marched him ahead of her down the road to the house of her brother-in-law, where she told her experience. The tramp escaped. caped.

house of her brother-in-law, where she told her experience. The tramp escaped.

The following Pennsylvania pensions were granted: James H. Grenet, Pittsburg: William McVetta, Harmonsburg: David Hoover, Reynoldton; Henry Schmontz, Monaca: Henry H. Baumgardner, Caseyville: William Haney, Albion: Hugh R. McCleese, Johnstown; James Tearney, Hollidaysburg: John W. Row, Marion Center; Jeptha L. Ayres, West Pike: Margaret Dubbs, Pittsburg: Mary E. Balsley, Uniontown; Sarah Lang, Altoona; Mary A. Hartley, Pittsburg: Joel F. Large, Pittsburg: John R. Means, Uniontown; Patrick Leonard, Erle; James Labar, Mercer; David Bates, Deckers Point; Nancy A. Mounts, Sharon; Martha Gray, Portersville: Mary J. Roberts, Beaver Falls; Beulah Fidell, McKeesport; Jonas W. Bare, Scottdale; John Devore, Allegheny: Joshua Torrance, Scottdale; John Rankin, Davis; Martin K. Weldner, Clarion; John A. Wherry, Pittsburg: Henry S. Oburn, Irwin; Moses Thompson, Allegheny; Johnson C. Akers, Altooffa; Harriet F. Smith, Sandy Lake; Evalin A. Gates, Durcansville: Eva Fike, Markleysburg; Joseph Hopper, Bear Creek, Luzerne; Joseph H. Lang, dead, Altoona, Blair; Israel Bear, Littiz, Lancaster; Hugh R. McCleester, Johnstown, Cambria; Benfamin F. Moore, Fairmount, Lancaster; Emanuel Ditzler, Cornwall, Dauphin; Joseph F. Herron, Ohioville; Albert Beckett, Pittsburg; Edward F. Powers, Hickman; John H. Flemm, Freeport; Martin V. B. Oakes; Westmoreland; James T. Chalfant, Allegheny; Charlotte E. Hammitt, Bellevernon; George Coates, Allegheny; Archibald Chambers, Allegheny; William Burnett, Lock Haven; Jacob W. Beck, Washington; Alfred Hassinger, Bellefonte; Edmund B. Williams, Union City; Robert G. Scott, Morrisdale Mines; Daniel Fitzwalter, Canton; James F. Collins, New Castle; Samuel M. Grace, Adamsburg; John Wimer, Greensburg, Windham; minors of Timothy Fitzgerald, West Newton.

With the lives of 200 families trembling in the balance, George Sober

Newton.

With the lives of 200 families trembling in the balance, George Sober mounted a bicycle and, after an exciting race of six miles from Shamokin township, reached Chamokin the other morning in time to organize a body of men, who ran from house to house warning the people not to drink the morning supply of milk delivered by the Sober brothers. A flend, to revenge himself on the Sobers, had poured a lot of Paris green into the milk cans, in addition to feeding it to the cows, two of which died as the cyclist was scorching to Shamokin. Isaac Lepply was arrested for the crime, and had to be kept from a mob, who wanted to lynch him. George B. Sanbouln was seriously in-

from a mob, who wanted to lynch him.
George B. Sanbouin was seriously injured the other night while driving from Stoneboro to Greenville. Sanbouin represents a large eastern rubber house. While driving along the road about three miles out of the city a stranger drove up behind Sanbouin, who asked him if he wanted to pass him. The stranger did not reply, but drove up alongside and struck Sanbouin's horse a sharp crack with the whip. The horse wheeled, throwing Sanbouin out, breaking his collar bone and cutting a deep gash in his head. Sanbouin was picked up unconscious.

Willie Kordan, aged 10 years, one of

Sanbouin was picked up unconscious.

Willie Kordan, aged 10 years, one of 11 boys who were bitten by a mad bulldog in West Scranton last March, died the other night from what the physicians diagnosed as unmistakable hydrophobia. Death was marked by intense suffering, the boy irp his agony biting his mother on the arms. This is the second death, Tommie Bevan, 11 years old, dying in April from the effect of bites by the same dog.

The county commissioners at Greensburg reluctantly decided recently that they will not attempt to have those em-

burg reluctantly decided recently that they will not attempt to have those em-ploying allens enforce the alien tax law and collect 3 cents from each for-eigner employed. The money collected thus far will be returned to those who paid it. This action was taken in view of Judge Buffington's recent decision that the alien tax law is unconstitu-tional.

Two men were killed near Johnstown Two men were killed near Johnstown recently on the Pennsylvania Railroad, Joseph Repine, at the famous point, Pack Saddle, and a man unknown, at Benns Creek. Repine was the engineer at Booth & Flinn's stone quarries at Pack Saddle. He was aged 30 years and was a widower with several children. The unidentified dead is in the morgue.

morgue.

Rev. O. B. Patterson, until recently pastor of the Methodist Episcopal church at Cooperstown, was taken vioently insane a few days ago and attacked his wife with a butcher knife. The recent conference at Oil City assigned Mr. Patterson to the Clymer (N. Y.) charge, which seemed to prey heavily on his mind.

Sheriff Cronister has seized the Brockerhoff house, in Bellfonte, for the benefit of the creditors on executions aggregating over \$5,000 against J. N. Neubauer, the landlord for six years past. The total liabilities will aggregate \$10,000, with not over \$5,000 assets. The hotel property is owned by the Brockerhoff estate.

John W. Baird, aged 57, a prominent Democratic politician or Clarion, was

John W. Baird, aged St, a prominent Democratic politician or Clarion, was killed a few days ago. Mr. Baird was driving to Payter township, when his horse took fright, and he was thrown from the vehicle, alighting on his head and shoulders with such violence as to break his neck. Miss Elma Mezner, aged 23 years, an

inmate of the Polk asylum, was found dead in her bed the other day. She was smothered to death while laboring in an epileptic fit. She belonged in Lock Haven and was brought to Polk when the institution was first opened from

A threshing machine ran away go-ng down a steep hill near Greenville, yas overturned and James Reinold fa-ally crushed in the wreck the other

fally crushed in day.

Ebenezer Daniels, one of the best-known and wealthiest citizens of Venango county, and one of the first persons to drill for oil on Oil Creek, dropped dead from heart disease while esting his dinner a few days ago. He leaves a wife and family.

leaves a wife and family.

George Latchiaw of Clark returned home the other day from the Stoneboro fair just \$200 poorer than when he started. He claims that he was watching a close finish between two horses when someone put a hand in his pocket and extracted the roll.

Mrs. Frank Beebe was awarded \$1,000 demages at Clearfield the other day for a broken arm, the result of a fall on an icy sidwalk in this city last winter.

## INDUSTRIAL NOTES.

Coke Ovens Being Fired and Many Men Given Work.

Work.

The Star mines and coke plant at Stauffer station, near Greensburg, Pa., which have been idle for a year, will be started up within 10 days, giving employment to 200 men. Seventy-five additional ovens were fired at Mammoth during the week, employing 75 men. At Hecla 100 ovens were fired up, making room for 100 additional men at the plant. The Hecla ovens had been idle for several years. Reese, Hammond & Co. have begun work on a new plant. The Latrobe steel works will begin at once the erection of 20 new houses. A hotel will also be sreeted. The new Glen Drilling company's plant at New Kensington will be soon started up. The Metcalf steel works, at Braeburn, are near completion. Over 400 men will be employed. Fifty new dwellings will be erected by the company.

The Irondale furnace property at Kingwood, W. Va., was fold the other day to the Captain Flicker Taylor company for the sum of \$6,290. This plant cost originally \$212,000, and was owned by Felix Nemegyle, of New York, who operated the furnace for years. The plant has been idle for some years, The purchaser expects to improve and operate the furnace.

The settlement of the coal strike and

ate the furnace.

The settlement of the coal strike and the consequent reduction in the price of coal at Akron, O., have enabled a number of large factories, which have been shut down for weeks to resume, giving employment to nearly 2,000 men who have been idle. The shops will be enabled to run on full time until next spring.

Among the plants at Wheeling, W. Va., which have been ordered to work at once are: Top mill blast furnace, idle two years; sheet mills at Whittaker iron plant, Bellaire steel works, and portlons of the Benwood iron mill. The Wheeling and Warwick potteries are working day and night.

The American wire nail works, employing 700 men; the Lippencott lamp chimney plant, which works 400, and the Macbeth lamp chimney works, with a like number of men on its payrolls, resumed in full blast a few days ago after a shut-down of two months and a haif.

Contract has been awarded for a 60contract has been awarded for a worten addition to the South Sharon steel mill at Wheatland, Pa. Eighteen more puddling furnaces were fired up at the Sharon iron works, making a total of 38 in operation. An additional force of men will be employed.

John H. Waters, on the heaviest stockholders in the new tin-plate plant at Johnstown, Pa., received a letter re-cently from the New York end of the concern stating that they would begin work on the plant this week.

The Cambria Iron company at Johnstown, Pa., paid out \$116,000 last week. This is the largest two weeks' pay for a long time. About \$40,000 of this amount was in gold.

Orders have been issued for firing 60 ovens at Trotter, and 200 more will be fired at once by the H. C. Frick and McClure coke companies at Connells-ville, Pa.

All the departments of the Salem, O., Wire Nail company resumed work the other day. On the first of the week the mills will be put on double turn.

During about 700 years the Latin language was the language of court, camp and polite society from the River Tweed, in Scotland, to the Euphrates, in Asia, and from the Crimea or Chersonese, in the Black Sea, to the Pillars of Hercules, at the western extremity of the Mediterranean.

The British museum has books written on bricks, tiles, oyster shells, bones and flat stones, together with manuscripts on bark, ivory, leather, parchment, papyrus, lead, iron, copper and wood. It has also three copies of the Bible written on the leaves of the fan reals.

pain.						
	MARI	KETS	١.			ı
	PITTS	BURG.				
	Grain, Flou		MA.			
WHEAT-	-No. 1 red	8		190		21
No 2 rec	d			37		81
CORN-N	o. 2 yellow.	ear	2	36		3
No. 2 ye	ellow, shelled			15		3
Mixed e	nr	************	1	14		31
OATS-No	o. 1 white		3	85		21
No. 2 w	hite		- 5	26		2
RYE-No.	. 1	********		52		5
FLOUR-	Winter pater	ta	5 5	25		8
Fancy s	traight winte	r	5 1	10		2
Rve flou	S.F.		3 6		3	71
HAY-No.	. 1 timothy		10 4	00	10	
Mixed c	lover, No. 1.		8 (	00	8	54
Hay, fre	om wagons.		11 (	00	12	0
FEED-N	o. 1 White h	Id., ton	15 (	00	16	0
Brown	middiings:	*******	13 (		18	54
Bran, be	ulk	********	12 (			51
STRAW-	Wheat		5 4			0
Ont	***********	********	5 4		6	
SEEDS-	Clover, 60 lb	A		75@	5	
Timoth	y, prime	********	1 :	38	1	
	Dairy P	roducts.	m		-	ī
BUTTER	-Eigin Cres			23@		2
Ohloer	eamery			19		
Fancy	country roll.			15		1
CHEESE	-Ohio, new		1.4	9		a.
New Yo	rk, new		- 1	10		2 1 1
21011 20	and managers					-

Fruite and Vegetable BEANS—Hand-picked, ₹ bu. ♣ POTATOES—White, per bu. CABBAGE—Home grown, bbi. ONIONS—per bu.	1	60	П	25 70 25 60
Poultry, Etc. CHICKENS, 7 pair		40@ 13 16		60 14 17

Approximately and the second s	The second second second second	
CINCINNATI		
FLOUR		85
WHEAT-No. 2 red		194
RYE-No. 2		47
CORN-Mixed		81
OATS		21
EGGS		13
BUTTER-Ohio creamery	. 14	15
PHILADELPHI	A.	

PHILADELPHIA.				
FLOUR	5	100	5	3
WHEAT-No. 2 red				9
CORN-No. 2 mixed				3
OATS-No. 2 white		**		2
BUTTER-Creamery, extra		2.0		2
EGGS-Pa. firsts	5	580	192	Į,
NEW YORK.	ā		-	ā
	æ	1000		

NEW YORK.		
FLOUR-Patents	5 85@	4
WHEAT—No. 2 red CORN—No. 2	-	
OATS-White Western		3
BUTTER— Creamery EGGS—State of Penn	. 39	15
		-0

# LIVE STOCK. CENTRAL STOCK TARDS, EAST LIBERTY, PA.

	CATTLE.				
O DOLLAND WITH THE	Prime, 1,300 to 1,400 lbs	444	90@ 75 50 00 50		08000
4	11008.				
	Medium. Heavy. Boughs and stags.	4	35 35 25	443	***
ă	Prime, 95 to 105 the, wethers 8		00@		1
1	Good. 85 to 90 lbs	8	40		8
d	Common	8	00	į	2
á	Spring lambs	8	50	-	3
ч	Fair to good lambs	8	00	м	-

Vesi sulves ..... 4 00 5 60

The gold, when it touches thaws only a few inches. This makes ry, forms an amalgam. After of gold has been put in the mercury is taken out, through a buckskin bag, and the ground that is done by "burning."

Fires are built on the surface and the ground thawed a little ways. This is then dug out; another fire is built in the hole, and this process is continued until bedrock is reached. Then

The gold, when it touches thaws only a few inches. This makes

SLUICING AT A RICH CLAIM IN THE KLONDIKE.

\$5000 was taken from a piece of ground 24 by 14 feet in plane dimen-s. It is officially designated as "No. 2, Below," Bonanza.)

the ground thawed s little ways. This is then dug out; another fire is built in the hole, and this process is continued until bedrock is reached. Then fires are built against the side of the short, and drifts and tunnels are theyed out.