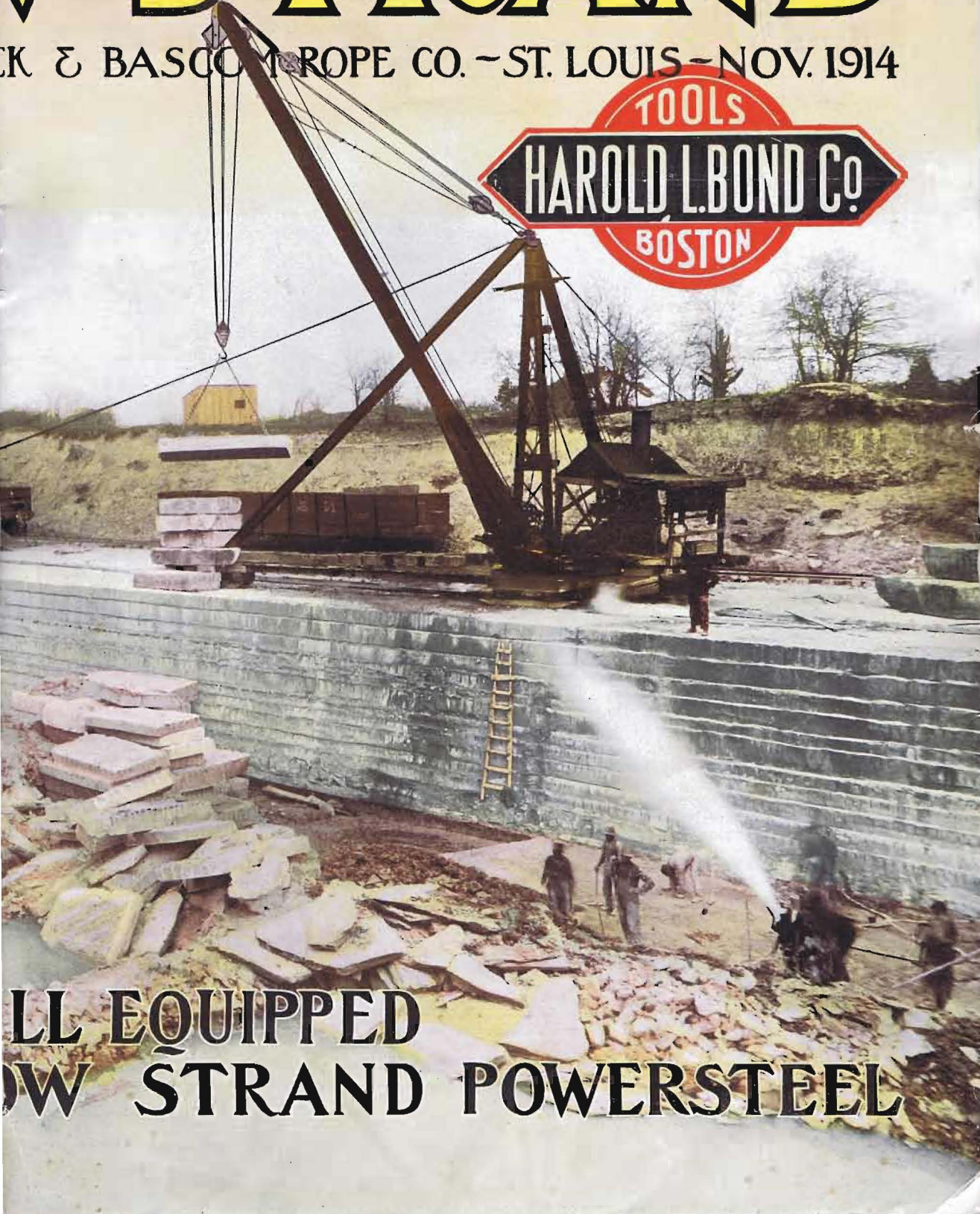
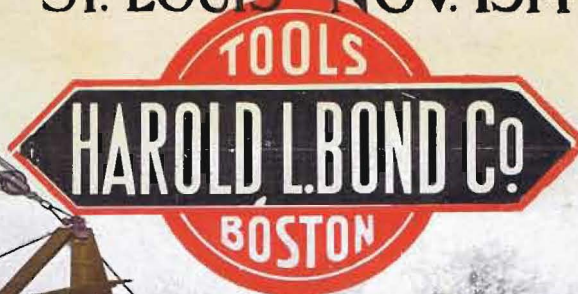


W STRAND

CK & BASCOM ROPE CO. - ST. LOUIS - NOV. 1914



LL EQUIPPED
W STRAND POWERSTEEL

A YELLOW STRAND IN YOUR ROPE MEANS YELLOW GOLD IN YOUR POCKET

Broderick
& Bascom
Rope Co.



*Carload of Yellow Strand Powersteel for the Index Galena Co., Index, Wash.
Our Seattle Factory in the background.*

HERE'S eye evidence of the popularity of Yellow Strand Powersteel among experienced loggers, that speaks louder than words. The ropes on car shown above consist of the following sizes and lengths:

2300 feet $1\frac{3}{8}$ -inch Brobas Yellow Strand Rope.
4600 feet $\frac{7}{8}$ -inch x 6/19 Yellow Strand Powersteel.
2500 feet $\frac{1}{2}$ -inch x 6/19 Yellow Strand Powersteel.
4600 feet $\frac{5}{8}$ -inch x 6/19 Yellow Strand Powersteel.
750 feet $\frac{3}{4}$ -inch x 6/19 Yellow Strand Powersteel.
3000 feet $\frac{1}{4}$ -inch x 6/19 Yellow Strand Powersteel.
4800 feet $\frac{1}{8}$ -inch x 6/19 Yellow Strand Powersteel.
2800 feet $1\frac{1}{4}$ -inch x 6/19 B. & B. Flow Steel Rope.

This carload of rope was shipped from our Seattle factory to the Index Galena Co., of Index, Wash., to be used for installation of the Eagles' Long Distance Mountain Logger. This machine will be operated by a 34-ton Lidgerwood Donkey Engine containing seven drums, which was built according to specifications furnished by Mr. Harry Eagles, manager of the above company.

Try this strong, elastic, flexible, durable rope yourself and you'll soon find out that "A Yellow Strand In Your Rope Means Yellow Gold In Your Pocket."

Broderick & Bascom Rope Company

New York

ST. LOUIS

Seattle

Factories—ST. LOUIS and SEATTLE

The YELLOW STRAND

Published by Broderick & Bascom Rope Co., St. Louis, New York, Seattle.

HOME OFFICE, 805-7-9 N. Main St., ST. LOUIS, MO.

FACTORIES, ST. LOUIS and SEATTLE.

VOL. XXI

NOVEMBER, 1914

No. 1

BUY FROM OUR AUTHORIZED AGENTS

All sizes and lengths of B. & B. Wire Ropes can be secured for immediate shipment from the following agencies or firms. Stipulate BRODERICK & BASCOM WIRE ROPE and see that you get it! If rope of *extreme strength, flexibility or durability* is wanted, stipulate YELLOW STRAND "POWERSTEEL" or PATENT STEEL.

Aberdeen, Wash., L. G. Isaacson Co.
Arkansas City, Kans., A. L. Derby.
Atlanta, Ga., General Fire Extinguisher Co.
Augusta, Ga., H. C. Tennent Supply Co.
Bartlesville, Okla., J. H. McMorrow.
Bay City, Mich., The M. Garland Co.
Beaumont, Tex., E. L. Wilson Hardware Co.
Birmingham, Ala., Perry & Hamilton Sales Co., Inc.
Boston, Mass., Harold L. Bond Co., 383-391 Atlantic Ave.
Bradford, Pa., Bovaird & Co.
Buffalo, N. Y., Erie Mill & Marine Supply Co.
Butte, Montana, Western Mining Supply Co.
Camden, Ark., Arkansas Mill Supply Co.
Chanute, Kans., The Star Drilling Machine Co.
Chanute, Kans., The Western Drilling Tool and Supply Co.
Charleston, W. Va., Charleston Hardware Co.
Chattanooga, Tenn., The Wheland Company.
Chicago, Ill., Geo. B. Carpenter & Co.
Cincinnati, Ohio, Julius Uihlein & Co.
Columbia, S. C., Lorick & Lowrance, Inc.
Columbus, Ohio, The Ross-Willoughby Co.
Corsicana, Tex., American Well & Prospecting Co. Inc.
Decatur, Ala., Decatur Lumber Supply Co.
Detroit, Mich., The Chas. A. Strelinger Co.
Duluth, Minn., Peter E. Meagher.
Dunnellon, Fla., Dunnellon Supply Co.
Electra, Tex., Republic Supply Co.
El Paso, Tex., Krakauer, Zork & Moye's Sucs. Inc.
Findlay, Ohio, The Ohio Pipe Co.
Galveston, Tex., Blum Hardware Co.
Grand Rapids, Mich., Barclay, Ayers & Bertsch Co.
Houston, Tex., Republic Supply Co.
Huntington, W. Va., Huntington Supply & Equipment Co.
Independence, Kans., The Bovaird Supply Co.
Indianapolis, Ind., Van Camp Hardware & Iron Co.
Jackson, Miss., Mississippi F'dry & Mch. Co.
Jacksonville, Fla., The Cameron & Barkley Co.
Jacksonville, Fla., The S. B. Hubbard Co.
Kansas City, Mo., Richards & Conover Hardware Co.
Little Rock, Ark., Central Supply Co.
Louisville, Ky., Dehler Bros. Co.
McAlester, Okla., Russell Hardware Co.
Macon, Ga., J. S. Schofield's Sons Co.
Marietta, Ohio, American Iron and Supply Co.

Memphis, Tenn., Memphis Machine Works.
Memphis, Tenn., E. C. Atkins & Co.
Milwaukee, Wis., Philip Gross Hardware Co.
Minneapolis, Minn., Chas. E. Sanford & Co.
Mobile, Ala., Standard Equipment Co.
Nashville, Tenn., Gray-Dudley Hardware Co.
New Orleans, La., C. T. Patterson Co., Ltd.
NEW YORK CITY, Broderick & Bascom Rope Co.,
76 Warren St.
Norfolk, Va., Southern States Engineering & Equipment Co.
Norfolk, Va., The Henry Walke Co.
Oil City, La., Republic Supply Co.
Oklahoma City, Okla., Richards & Conover Hardware Co.
Omaha, Neb., Johnson Hardware Co., 1217 Farnum St.
Oshkosh, Wisc., Oshkosh M'fg Co.
Pensacola, Fla., Ray Hardware Co.
Peoria, Ill., Couch & Heyle, Inc.
Pine Bluff, Ark., Arkansas Mill Supply Co.
Pittsburg, Pa., Somers, Fittler & Todd Co.
Portland, Me., W. L. Blake & Co.
Portland, Ore., Stewart Bros. Co.
Pulaski, Va., Price Hardware Co.
Quincy, Ill., Hollister-Whitney Co.
Richmond, Va., Hunter B. Frischkorn.
Saginaw, Mich., Saginaw Hardware Co.
Salt Lake City, Utah, F. C. Richmond Machinery Co.
San Antonio, Tex., San Antonio Machine & Supply Co.
San Francisco, Cal., Western Equipment Co., 72 Fremont St.
Sapulpa, Okla., The Bovaird Supply Co.
Savannah, Ga., Savannah Supply Co.
SEATTLE, WASH., Broderick & Bascom Rope Co.
Seattle, Wash., Broderick & Bascom Loggers' Supply Co.
Sioux City, Ia., The Sioux City Iron Co.
Sioux Falls, S. D., Larson Hardware Co.
Spartanburg, S. C., Montgomery & Crawford.
Spokane, Wash., McGowan Brothers Hardware Co.
Springfield, Mo., Schweitzer Bros. Supply Co.
ST. LOUIS, Broderick & Bascom Rope Co.
St. Paul, Minn., R. B. Whitacre & Co.
Toledo, Ohio, The M. I. Wilcox Co.
Tulsa, Okla., Western Supply Co.
Wilmington, N. C., Standard Supply Co.
Wilson, Okla., Republic Supply Co.
Winston-Salem, N. C., Salem Iron Works.

OUR NOVEMBER COVER DESIGN



THE photograph reproduced on this month's cover, shows the quarry of The McDermott Stone Co., McDermott, Ohio.

This plant produces a fine quality of buff and blue building stone which is sold mainly to cut stone contractors for all kinds of cut stone work. They also produce blocks for heavy masonry and sawed flagging for sidewalk purposes.

Mr. John S. Smith, president of this company, says they have a capacity of twenty cars per day, and their work is of such a heavy nature that it requires

rope of extraordinary strength and durability. After experimenting for ten years with various makes of wire rope they adopted Yellow Strand Powersteel about five years ago and have used it ever since. At the present time their entire plant, both mill and quarry, is completely equipped with Yellow Strand Powersteel Wire Rope.

Use Yellow Strand for strain—it's dependable. It's also elastic, flexible, durable and economical—an ideal rope for all heavy work. Any of the above agents will fill your orders promptly.

Broderick
& Bascom
Rope Co.

DREDGING FOR GOLD—THE MODERN METHOD OF "PANNING DIRT"

THE old "Forty-niner" with his pick, shovel and pan, thought he had an ideal mining equipment—but that was sixty-five years ago.

Today huge dredges, equipped with modern machinery and costing thousands of dollars, do practically what the old time miner did, but on a much larger and more profitable scale.

These dredges work so rapidly and cover such oceans of territory that entire beds of streams can be worked for the gold they contain in the time an ordinary miner would require to work a single "pocket."

The Oro Water, Light & Power Company, at Oroville, Butte County,

California, is the largest company operating in the Oroville district at the present time. They are working four 5-cubic-foot dredges, costing \$85,000 each and one 9-cubic-foot dredge, which cost \$175,000, making a total investment in dredging machinery alone of over \$500,000.

A strata of gravel, mostly on the surface and extending to a depth of twelve feet, covers the entire Oroville district for miles. It was for the purpose of extracting the fine gold from this gravel that such large and expensive dredges were built.

These dredges dig their own canals as they travel along, the gravel passing through revolving screens where all the earth and large boulders are washed out, then on through the process of extraction. The dredge scoops up the dirt by the cubic yard, thousands of cubic yards being handled each day. All the refuse is dumped at the back by means of a long conveyor, thereby filling in the canals and making it possible for the dredge to be floated in a very small area of water.

Gold is not the only metal obtained by dredging. Tin, platinum and even diamond dredging is not uncommon.

Practically every type of dredge has been used for mining purposes, but the ladder dredge, shown in illustration, appears to have proved most successful. It delivers the dirt and gravel in a steady stream and the speed of the buckets is easily regulated.

Wire rope is used to raise and lower the ladder, and while the ladder hoist lines are not required to pass rapidly over the sheaves, they are nevertheless subjected to a constant and tremendous tension, and it is very important that they should have a high tensile strength and be dependable at all times.

The following letter from Mr. C. G. Leeson, manager of the Oro Water,



Business End of Gold Dredge Operated by the Oro Water, Light & Power Co., near Oroville, Calif.

A YELLOW STRAND IN YOUR ROPE MEANS YELLOW GOLD IN YOUR POCKET



The
Yellow
Strand



Complete view of Dredge, section of which is shown on Opposite Page. Carries 5460 feet of $\frac{7}{8}$ -inch and 250 feet of $1\frac{1}{4}$ -inch Yellow Strand Powersteel Wire Rope.

Light & Power Co., shows that Yellow Strand Powersteel meets every requirement:

"Dear Sirs:

"We are pleased to inform you that two $\frac{7}{8}$ -inch Yellow Strand Powersteel lines operated 674 days on the ladder hoist of our Hunter Dredge. This is exceptionally good service and surpasses any service heretofore obtained on any of our dredges."

Yours very truly,

ORO WATER, LIGHT & POWER CO.,
C. G. Leeson, Manager.

SAWMILL SALVAGE

IN EVERY industry there is more or less waste. In this day of close competition it is the manufacturer who can utilize the waste to the best advantage who wins out. Sawmilling is no exception. Slabs are utilized by making them into barrel headings, box boards, lath, shingles and pickets.

These slabs are caught from the rolls as they come from the saw, and made to slide down an incline to the mill floor, where they are caught upon chain conveyors and carried to the slasher. Here a series of circular saws are so arranged that the slab is cut into lengths four feet, one inch, as it passes along.

These pieces fall into a conveying trough and are carried toward the dump. Spiked rollers catch the four-foot lengths and throw them upon other conveyors. As they pass along, the material suitable for laths is pitched out and placed upon conveyors running to the lath machine. Others pick out the stock suitable for shingles and place it on conveyors for the shingle machine.

As the laths are sawn they are counted and bound into bundles of one hundred each. These bundles have their ends trimmed so that they are exactly four feet long. From the trimming saw the bundles are placed in a chute which takes them to the place of storage.

The four-foot lengths of slab suitable for shingles are recut to lengths of sixteen inches. After passing the shingle machine, the pieces go to the lower story of the mill and are jointed and packed.

In spite of this utilization of waste, there is still an enormous amount of waste to be cared for, not the least of which is the sawdust.

Sawdust is blown to the engine room, there to be used for fuel. Bark and other waste is sold for kindling and stove wood as far as there is a demand.

YELLOW STRAND

WE OFFER TWENTY-FIVE DOLLAR

WE WANT good photographs showing Yellow Strand Powersteel or other B. & B. wire ropes in use. We will pay \$5.00 for each photograph you send us that we reproduce on this page. We publish three each month. Ten dollars will be paid for any photograph suitable for a cover design for THE YELLOW STRAND.

In addition, all photographs submitted in Prize Contest, but used, instead, to illustrate other parts of this magazine, will be paid for according to their value as estimated by us. All photographs are judged according to their advertising value and are paid for when published. A short description should accompany each, stating where the rope is used and for what purpose—the size, brand and where it was bought. The latter information is very important.



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PRIZE PHOTOS

S MONTHLY FOR PHOTOGRAPHS



X This photo shows a train load of sugar pine logs which were yarded, roaded and loaded with Yellow Strand Powersteel Wire Rope, by the Westside Lumber Co., Tuolumne, Calif. The picture is remarkable inasmuch as these logs were all from one tree. This tree cut eleven 16-foot logs with a scale of about 36,000 feet. The butt log scaled 6000 feet and the second log about 5800 feet.

Y Erecting steel frame work of the twelve story Kanawha National Bank Building, Charleston, W. Va. Three-quarter-inch Yellow Strand Powersteel Wire Rope was used for hoisting and general derrick work by Geo. D. Gates, contractor. The rope was purchased from the Charleston Hardware Co., our Charleston, W. Va., agents. Photo submitted by E. M. Craig, Jr.

Z Three-and-a-half-yard Browning Steam Shovel equipped with 1-inch Yellow Strand Powersteel and operated by the Gray Coal Co., of Danville, Ill. Mr. G. S. Brown, superintendent, says: "We have been using Yellow Strand Powersteel Rope on this shovel for the past two years and it has given entire satisfaction." Rope was purchased from our St. Louis office.

PRIZE

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ANS YELLOW GOLD IN YOUR POCKET

A YELLOW STRAND IN YOUR ROPE MEANS YELLOW GOLD IN YOUR POCKET

Broderick
& Bascom
Rope Co.



Floating dredge, rigged with 1-inch Yellow Strand Powersteel Wire Rope, loading twelve submarine cables for high tension system under Ohio River at Pittsburgh.

INSTALLATION OF HIGH-TENSION CABLES UNDER OHIO RIVER

TWELVE submarine cables were recently installed under the Ohio River as part of the three-phase 11,000 volt transmission system of the Duquesne Light Co., of Pittsburgh. They carry the current generated at the Brunots Island Plant, to the north shore of the Ohio River. This island is about three miles below Pittsburgh. The cables weigh approximately 20 pounds per foot, and were reeled in 920-foot lengths, each length representing a complete line from shore to shore.

Previous to the arrival of the cables on the scene of the work, a trench, ten feet across the bottom, twenty feet across the top and four feet in depth, was dredged in the bed of the river between the two terminal points. A river dredge (dipper type) was used for digging the ditch.

When the cables arrived at Pittsburgh, they were unloaded from cars at the wharf, rolled to the water's edge and loaded upon mud scows and towed to the scene of laying. The twelve

ends were then pulled into the man-hole on the north shore, by means of a rope threaded through one duct into the manhole and back to the boat through another duct.

In order to prevent a sharp bend where the cables leave the duct, a concrete saddle, curved to support the cables, was built into the bank.

In landing the ends of the cables it was necessary to raise a pipe line, draw the cables under it and lower it again into place. This line, three inches in diameter, carries oil from Coraopolis to the North Side at a pressure of 800 pounds. After the ends were made fast in the manhole, the boats moved out into the river and the cable was paid out over the stern of a flat on which the cables were trained, after leaving the mud scows. As the boats moved out the cables were pulled forward on the flat by the capstan on the forward deck of the steamer so as to relieve the strain on them and to allow them to lie on the bottom as much as possible, and without becoming crossed.

Upon reaching the island shore, the



flat was taken away from the rear of the scows, the cables on it being dropped overboard, as it was allowed to float downstream. The empty flat was then put back into its original position, floating over the cables, and the balance of the cable on the reels, unreeled back upon it. This put the cables in position for paying out over the bow of the flat, which was slowly pushed to the island shore. The ends were easily dragged up on the bank and drawn through an opening in the concrete dike, into the manhole in which they connected to cables from the station.

The cables were tested out successfully at 22,000 volts, and put into service. The trench was allowed to fill from the wash of the current. The floating dredge used by the Fieger-Austin Dredging Co. for handling these heavy submarine cables was equipped with 1-inch Yellow Strand Powersteel Wire Rope. Needless to say there were no "rope accidents."

COMPENSATION

Pat: Mike, do you understand the law of compensation?

Mike: No, Pat, what is it?

Pat: It is like this, Mike. When a man loses one arm he is twice as strong in the other, or when he loses the sight of one eye he can see twice as far with the other one. Have you ever noticed that?

Mike: No, I've never noticed that; but I have noticed that when a man has one leg shorter than the other, the other is almost always a little longer.

The
Yellow
Strand

WHERE IT HAPPENED

During the Thanksgiving dinner, a young gentleman was seated next to a fine-looking young woman who was wearing a gown which displayed her beautiful arms. "I came near not being here tonight," said she. "I was vaccinated a few days ago, and it gives me considerable annoyance."

The young man gazed at the white arms of the speaker. "Is that so," he replied. "Where were you vaccinated?"

The girl smiled demurely and said: "In Boston."

Car Owners

needn't worry about "getting home" if there's a Basline Autowline tucked away under the seat cushion. This little giant will tow a 4000-lb. car up a 20% grade, pull a mired-down car to solid ground or take a cripple home in fine shape.

Basline Autowline

"The Little Steel Rope With The Big Pull"

is made of about 25 feet of Yellow Strand Powersteel wire rope, $\frac{1}{4}$ inch in diameter, and weighs only $4\frac{1}{2}$ pounds. It has special hooks and manila slings for instant attaching without paint damage. Get one today from any supply dealer. Price, east of Rocky Mountains, \$3.95.

FREE—An illustrated Autowline circular telling the whole story.

Broderick & Bascom Rope Company
ST. LOUIS, MO.

New York Office, 76 Warren Street



Broderick
& Bascom
Rope Co.

OLD YARNS RESPUN

COULDN'T GO IT

Pat went into a swell hotel bar, and laying down a smooth dime, asked for a drink of whiskey.
The bartender replied, "We do not sell 10-cent whiskey here."
Pat picked up his dime and walked out saying:
"I can't go that nickel stuff."

HARRY FRITZINGER, Decatur, Ind.

Head off trouble before it comes. Buy Yellow Strand Powersteel now.

WAGES TOO LOW

Crops were heavy and field-hands were few. Silas Warren, who owned one of the largest farms in the country, tried to induce Ned Plodgett, the laziest man in the village, to help with the harvest.

"Wal, Si," said Ned, laying down his whittling, "how much do you pay?" "I pay every man what he's worth," answered Warren. Ned scratched his head meditatively. Then he picked up his whittling. "No, Si," he drawled, "I can't work that cheap."

J. M. CHAMBERS, Smoke Run, Pa.

Verily, disappointment followeth in the footsteps of the cheap wire rope salesman, for his promises are as the pot of gold at the end of the rainbow.

WANTED TO MAKE SURE

The colored janitor of the flat next door approached the grocer and handed him a paper containing some white powder.

"Say, boss," he asked, "what do you think dat is? Jes' taste it an' tell me yo' pinion."
The grocer smelled it, then touched it to his tongue.

"Well, Jake, I should say that was soda."
"Dat's jest what I say," replied the janitor triumphantly. "I say dat's soda, but my ol' woman, she 'low it's rat pizen; she says she knows 'tis. Jes' taste it again, boss, fo' to make sure."

J. R. DICKINSON, Minneapolis, Minn.

Let the strand of yellow be your guide when buying wire rope.

THE REAL THING

The cub reporter saw a hearse start away from a house at the head of a funeral procession. "Whose funeral?" he inquired of the corner storekeeper, who was standing near his door, gazing at the conveyances.

"Chon Schmidt."
"John Smith!" exclaimed the cub. "You don't mean to say John Smith is dead?"
"Vell, py golly," said the grocer, "vot you dink dey doing mit him—practicing?"

P. L. WALSH, St. Louis Mo.

A lame excuse for good wire rope will soon cause a halt in your hoisting.

EVERYTHING GOES

Everything goes but pen and ink, that is stationery, so we let the ink stand and the paper weight.

H. W. CALDWELL, Fellows, Calif.

DECIDED DIFFERENCE

An Irish sailor decided to walk from Charlotte to Rochester. He met a car driver and asked:

"How far is it from Charlotte to Rochester?"

"Nine miles, mister," was the reply.

"Thankee," said Pat. "And how far is it from Rochester to Charlotte?"

"Didn't I tell you how far it was from Charlotte to Rochester? Do you suppose it is any further the other way back?"

"Sure, and I don't know," replied Pat, "I know it is a great deal further from New Year's Day to Christmas than from Christmas to New Year's Day."

HENRY F. KUBITZ, Rochester, N. Y.

Nothing lazy about Yellow Strand Powersteel—it loves to work. The more work, the better its record.

RUSTIC EXTRAVAGANCE

A country gallant and his best girl were in town watching the folks pass. As they were riding along in their buggy they came upon a pop-corn man.

"Whew, that pop-corn smells good," said she.

"Yes, it does. I'll drive a little closer so you can smell it better."

FRANK HARCOURT, Louisville, Ky.

Yellow Strand Powersteel has the strength to keep its promises about better quality.

A DISCOVERY

Scientist—"Some of the grandest inventions of the age have been the result of accidental discoveries."

Fair lady—"I can readily believe it. Why, I made an important discovery myself, and it was the purest accident, too."

"I should much like to hear it," remarked the scientist.

"Why, I found that by keeping a bottle of ink handy, a fountain pen can be used just the same as any other pen—without the bother and mess of filling it."

HOWARD S. EDGE, Dallas, Tex.

Yellow Strand Powersteel means "Safety First"—last and always.

SMITH'S DOG

Jones's little boy came home from school one day very boastful of the fact that he could spell dog, but when he was asked by his father to do so he hesitated.

"What kind of a dog?" he asked.

"Why, any kind of a dog," said Father Jones.

"A dog like Smith's dog?"

"Yes."

"Well, Smith ain't got any dog."

E. B. DURHAM, Berkeley, Calif.

The honesty of Yellow Strand Powersteel is the best policy against rope accidents.

LEFT HER OFTEN

A prominent man called to condole with a lady on the death of her husband, and concluded by saying: "Did he leave you much?"

"Nearly every night," was the reply.

HARRY WEAVER, Los Angeles, Calif.



FREE

Yellow Strand Paper-Weight awarded for all contributions to this page that we consider good enough to publish. Send us a good article—clipped or original.

DRILLING OIL WELLS BY THE "DRY-HOLE" METHOD

The
Yellow
Strand

THE method of drilling employed in the Cushing field in Oklahoma, is similar to that employed in all eastern and northern oil fields, and is called the "dry-hole" method of cable-tool drilling, as the hole is drilled with all water cased out. Only enough water is used to keep the drillings slushy so that the drill bit can strike the rock at the bottom and do its work and the bailer can pick up the drillings and clean the hole.

The "string of tools" regularly used in drilling with a cable rig consists of a bit, auger stem, jars, and a rope socket.

A steel drilling cable, having six strands of nineteen wires each is used for the drilling line. Experienced oil well men find that our Patent Steel Invincible Drilling Cable, which is made expressly for oil well drilling, gives long and satisfactory service.

The drill hole is started with a large bit, and a wooden conductor or a surface string of metal pipe is set through the

top soil to bed rock. A smaller bit is then used and drilling proceeds until, owing to the caving of the wall of the hole or an excessive inflow of water, it becomes necessary to case the hole to prevent its caving or to keep out water. If possible the hole is continued through the caving or water-bearing bed to the first bed hard and strong enough to support the full weight of the casing, and a string of casing is inserted from the surface to this bed.

Sixteen-inch casing is usually used to a depth of twenty to sixty feet and from this point on gradually decreased in size until oil sand is reached and the hole finished with six and five-eighths-inch casing.

The average time required to drill a well in the Cushing pool is about fifty days.

When casting about for things to be thankful for, don't forget Yellow Strand Powersteel. Without it you might be wasting money.

PATENT STEEL

Invincible Wire Drilling Cables Are Best by Every Test

It is the heavy strains, the abrasive wear of sand and stone, the exposure to the action of the elements to which cables are subjected in oil well drilling that tests rope quality. The fact that Patent Steel Invincible Drilling Cables outnumber all other kinds 5 to 1 in some oil fields speaks volumes for their good service and dependability.

These cables are of special soft-laid construction; flexible, elastic, durable and economical. Write for prices.

Broderick & Bascom Rope Co.

New York ST. LOUIS Seattle

Factories—ST. LOUIS and SEATTLE

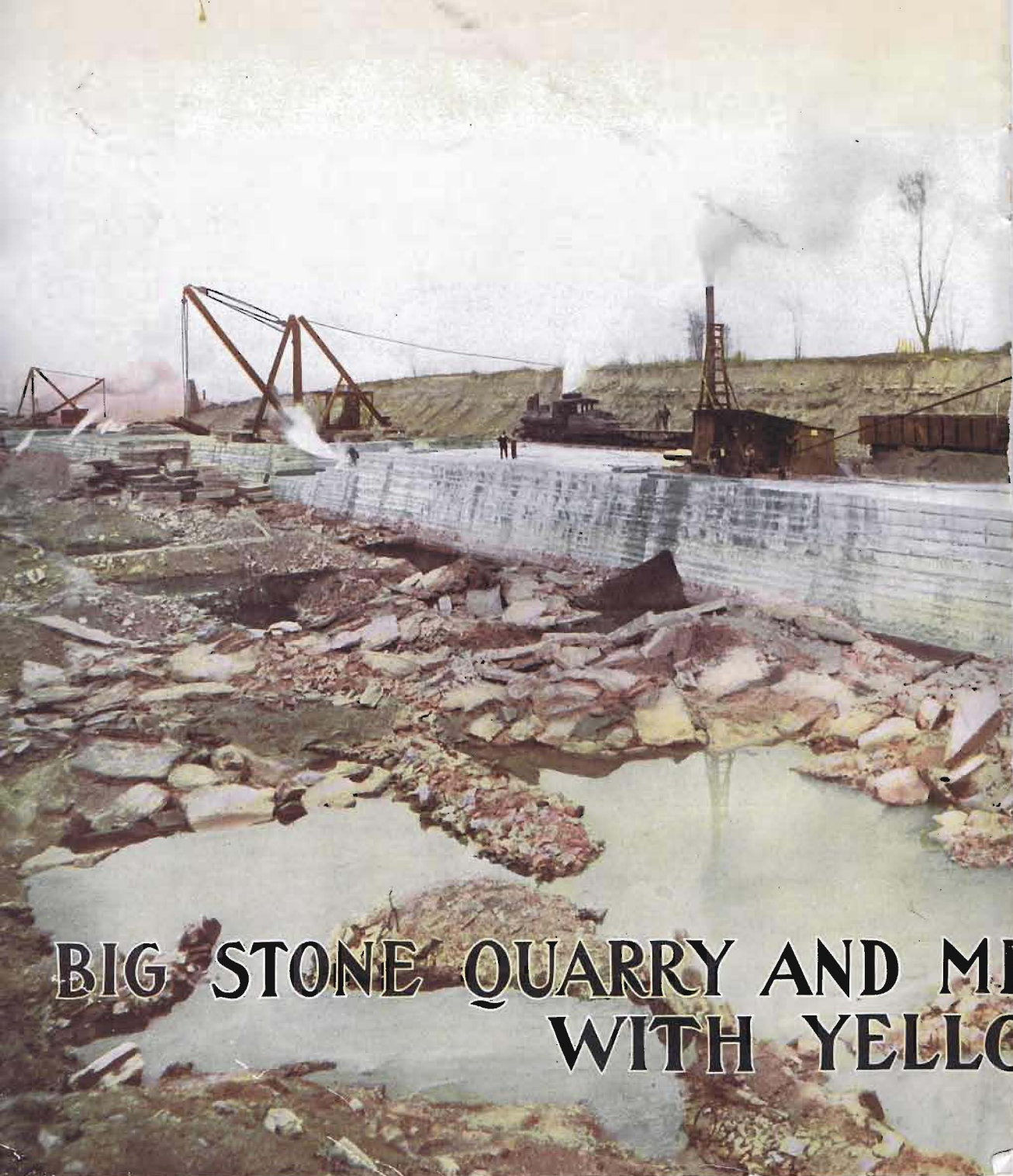
Agents In All The Oil Fields



[11]

The **YELLOW**

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**BIG STONE QUARRY AND MILL
WITH YELLOW**