DESERET EVENING NEWS SATURDAY JUNE 8 1907

GREAT OBJECT LESSONS OF **IRRIGATION IN IDAHO.**

Empire Builders. Working Their Way Westward, Discover Vast Resources Latent in the Soil of the Gem State, and by Expenditure of Large Sums of Money and Employment of Thousands of Men. Re-Reclaim the Desert. Making Grass Grow Where None Grew Before.

ILNER BY THE DAM. June 6. -One of the great object les-sons of empire building can be seen at Milner by the Dam. Fails county, Ida. Sixty days the porth side of the Snake river desert, lonely and absolutely un-tics. Indiginable. A spacious com-ry building filled with supplies of description first commands atten-Twin Falls county, Ida. Sixty days ago the north side of the Snake river was a desert, lonely and absolutely uninviting. Today it is one of the busiest places imaginable. A spacious commissary building filled with supplies of every description first commands attention as one crosses the wagon bridge from Milner. It is conservative to state that this building contains \$20,000 worth of such supplies as are used in worth of such supplies is not used in construction work. The next building is the messhouse, where a large number of men are reinforced for the battle of life three times a day. On every hand is action, life and go.

WHO IS WHO?

WHO IS WHO? R. W. Faris is the owner and master mind of this great construction outfit. It is, besides being a thorough or-ganizer, an engineer of mational repu-tation. His trusted lieutenant in this work is J. C. Porterheid, also an ac-credited and reliable engineer. The rate-Kest Construction company, of which Mr. Farts is the principal owner, has the contract for the construction of the Great Twin Falls North Side canal, and surely is a colossal undertaking. nd surely is a colossal undertaking. A CITY OF TENTS.

A cliff over the "City of Tents," one imagines he is toolking on the camp or an army. At noon and at 6 o'clock in the exhibit one can believe that war has commenced, and that this is an ar-enery conditor, for as the great blasts explode, hucking tons and tons of lava rock into the air, it sounds like heavy canonading, and is certainly a weird and starthurg scene of action.

CONTRACT BONUS.

CONTRACT BONUS. When J. H. Purdy, the personal rep-resentative of Kuhn Brothers of Pitts-burg. Pa., the financiers and owners of the North Side project, was here 60 days ago, at the time the contract was let, he promised R. M. Faris, the contractor, a bonus of \$17,500, if he com-pleted on or before the last day of Jan-tuary, 1908, his contract to Wilson's lake. Mr. Faris, in return, agrees to pay Kuhn Brothers \$300 a day for every day's delay in completion after the above date, and the matter stands that way today.

may today. This morning as the writer stood on This morning as the writer stood on a high point overlooking this great scene of action, he realized in full measure that he lived in an age of won-derful achievenient. Hundreds of men disging, pounding, drilling; scores of teams pulling loads--water wagons to Freeno scrapers. The work for the first four miles is extremely heavy--a mile of solid rock to commence with. The canal is 60 feet wide on the bottom, so the reader can readily pictures the magnitude of the undertaking.

NORTH SIDE CANAL.

NORTH SIDE CANAL. 5. The first half mfle from the head-gates at the dame is side cutting and tearing down of the lava formation to secure the bed for the canal. The lower bank of the canal for half a mile will be made of cement. The canal then runs through a solid rock practically 20 feet deep a half mile long. The canal here leaves the river and the earth work commences, which for the next three miles is very heavy. The canal system of the Twin Falls North Side Land & Water company is one of the finest systems in the United States and is additionally fortified against a low water season in Snake river by three great reservoirs, or nat-ural lakes, that are filled at the high stage of water in the Snake river, thereby forever excluding the possibili-ty of a scarcity of water.

IDAHO DISCOVERED.

Great things are now being done in Idaho land. No longer do infant indus-tries gasp for need of proper nourish-ment. The dormant resources of the Cure makes sound kidneys and blad-

Empire building is now taking its proper rank among the world's great events. First comes the man who con-ceives in his brain, the possibilities of a ceives in his brain, the possibilities of a great enterprise; the presentation of it to men of wealth who have the means to materialize the conception of the promoter; the practical development of the enterprise, and lastly, the disposing of it as a whole or in sections to others for more than its cost. It's a long and winding road, beset with compli-cations and disappointments before the approach of final victory. From con-ception to completion means much more than can be said or written, more than the mind can readily master.

IRRIGATION IS KING.

Trigation is a word with which to conjure—the reclaiming of arid aeres, the making of grass where none grew before, is indeed a mighty victory, all the more mighty in that it is humane, howe and peace making. Frigation is a synonym for "opportunity," a blessed word carrying a message of hope to hu-man hearts. Empire building is an opportunity so broad and splendid that no man need blush to be a common sol-dier in the ranks of this progressive army. The writer could but think as he watched the busy little army of works, ers making a canal to carry the water to the thirsty land, how in five years more the sagebrush would disappear, the solitude of the desert would be a memory, a new era created, hundreds of prosperous homes a fact: a kindly, progressive efficientship replace the dreariness and solitude of the hereto-fore unimhabited country, an empire born, and all well. **FIVE YEARS AGO.** Irrigation is a word with which to

FIVE YEARS AGO.

FIVE YEARS AGO. Less than five years ago the same conditions existed on the south side of the Twin Falls project—sagebrush, des-ert and the solitude of the wilderness. Today the Twin Falls country is a na-tional household word, the best and most favorably known irrigation pro-ject in the United States. It has made good from its birth, and still develop-ment and progress are the watchwords of the settlers, investors and the splen-did people who are succeeding in con-quering the problems of life for them-selves in the magnificent land of op-portunity. Every new and modern ap-pliance is in use and favor; every-thing is up to date. Nothing seems to be too good for this great new people who are flocking to the irrigited acres and building towns, homes, schools, churches, railroads, telephones, and practically applying to their every-day lives, every known method that tends to make a permanent abode in a land that responds so readily and yields so

GREAT OBJECT LESSON.

abundantly.

The south side of the Twin Falls reclamation project is the greatest ob-ject lesson of the age. The writer challenges any other irrigation prochallenges any other irrigation pro-ject in the world to equal it in the same period of time. The north side now under construc-tion, will break the record of the south side and it will owe the victory, to a large extent, to the reflected light and success of its big brother, the south side. The class of settlers buying these acres is a guarantee of a high grade, intelligent cltizenship, a people among whom it will be good to live and abide. MAJOR FRED R. REED.

SCIENTIFIC MISCELLANY.

SCIENTIFIC MISCELLANY. Though alcohol was obtained from reat as long ago as 1876, the first at-tempt at manufacture on an industrial scale seems to have been begun by Reynaud in Denmark in 1905. The peat was heated with dilute sulphurie acid, and the sugar solution so ob-tained was fermented with a special year. In this way some thousands of gallons of alcohol were produced last year at Aalborg. The fermented liquid, however, contained not more than one per cent of alcohol, and the concentration of so weak a spirit promised very doubling profit. Better results are claimed from independent experiments by Herr Frestidius and Baron Fock. Ordinary peat contain-ing 62 per cent of water was bolied 15 minutes with dilute sulphuric acid in a copper vessel, under a pressure of three aimospheres, and the liquid was then pressed out, the excess of acid neutralized with chark, and after thi-mented. This product yielded 5½ per cent of alcohol, corresponding to about 20 gallons of peat.

particular.

An extraordinary pair of elephan tusks lately shown in London measur in length 11 feet 5 inches and 11 fee mon ones in not digging for roots.

The new art has assumed such im-portance that a "Society of Color Pho-tographers" has organized in London for the interchange of experiences and for the interchange of experiences and specimens, and a special monthly journal has been established as a sup-plement of the British Journal of Pho-tography. A summary of British pat-ents in color photography goes back to 1876.

The vate iree of western Australia, growing to a height of 100 feet and a diameter of 2½ to 3 feet, yields the strongest limber known. Late tests showed an average tendle strongth of 24,000 pounds to the square luch, equal to that of cast irue, and some specimens resisted 17½ tons to thy square luch, equal to the tensli-strength of wrought iron.

Amputating a horse's leg at the fei-lock joint. Prof. I'driskl, of the veter-imary school, at Bucharest, has re-placed the lost portion with a leather artificial leg that enables the animal to walk about and take exercise.

A polygiof medical journal is an-nounced from Berlin, each article to be published in German, English, Ital-ian and Spanish, Several American medical men contribute to the first curvice.

A piece of felt, interposed between the air-chamber and the envelop, is a French solution of the tire-puncture problem that seems to have given good results. The felt is about half, an inch thick, its width depending on the size of the tire, and it is held in place by the outer envelop at its edge and cemented to the inner surface of the protecting band. It soon adjusts itself to the shape of the tire. Before a nail or other sharp point the felt tends to give way instead of being penetrated, and the resistance usually prevents puncture, though not invariprevents puncture, though not luvari-

Vibratory massage is applied to the treatment of catarrhal deafness by means of a new apparatus resembling the ear-plece of a telephone receiver, and quite surprising results are claimed. For good hearing it is nec-essary that vibrations be transmitted freely from the ear-drum through a chain of jittle bones, or ossicles. In catarrhal deafness, the bones are stif-fened by mucus, and the new appar-atus transmits the vibrations in spire of the stiffenening, both giving present hearing and tending to restore normal action. Little diaphragms acted on by electromagnets transmit the wave by electromagnets transmit the wave motion to the car,

Electric sleep, or anaesthesis, is produced by the action on the birdin of intermittent electric currents of low voltage. It has been a subject of spe-

Where Did the Horse Originate?

riah, 519 B. C., gives us color: "I saw by night and behind a man riding upon a red horse, and he stood among the myrtic trees that were in the bottom, and behind him were three red horses, speekled and white"-Zachariah, chapter its. And according to Revela-tion, viid, a red horse was an embien of war and bloodshed. By the second verse it is seen that there was a white horse, and from the third verse that at the time the borse had the power of speech: "And when he had opened the second seal I heard the second beast say: "Come and see," "And when he had opened the third seal I heard the third beast say: "Come and see," "And when he had opened the third seal I heard the third beast say: "Come and see," and he that sat on him had a pair of bhances in his hand."

balances in his hand." Many passages can be found in the Bible where an allusion is made io the courage of the horse and his love for the battle. The Bible tells us that the hardness of the hoof is reck-

the princings. The Biele tolls us that the horse was used to bear the rider into battle, to draw the charlots, and to thresh out the grain. In Psaim exivit: "The Lord delighteth not in the strength of the horse; he taketh not pleasure in the legs of a man."

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Another car load of desks just

received.

Gem of the Mountains no longer re-main silent and unproductive. She is discovered. The bugie call of Idaho's great march of progress and develop-



WORLD'S GREATEST STEEL BRIDGE.

The new steel bridge which is to be hullt across the East river, New York, at Hell Gate by the Pennsylvania Railroad company is to be the longest and heaviest steel structure ever erected by man. It will carry four trucks and clear high tide at 140 fect. The rails will be imbedded in stone will be 2000 tons of steel will be used in its construction. The arch span will be 1.000, feet between piers and the total length of the bridge nearly two miles. When completed, three years bence, for the first time an all-stall service will be in operation between the west and south to New Eng-land through New York.

nan who is in perrect health, so he A main who is in perfect health, so he can do an honest day's work when neces-sary, has much for which he should be thankful. Mr. L. C. Rodgers of Branch-ton, Pa., wittes that he was not only unable to work, hut he couldn't stoop over to the his own shoes. Bix bottless of Pries's Kidney Cure made a new man of hime He says. "Success to Fries's Kidney bine He says." Success to Fries's Kidney bine He says. "Success to Fries's Kidney bine He says." Success to Fries's Kidney bine He says. "Success to Fries's Kidney bine He says." Success to Fries's Kidney bine He says." Success to Fries's Kidney bine He says. "Success to Fries's Kidney bine He says." Success to Fries's Kidney bine He say

ANCIENT ROME

voltage. It has been a subject of spe-ojal study for several years by Pro-Stephane Ledac of Nantes and other olal study for several years by Prof. Stephane Ledac of Nantes and others, and the application has been perfected until it is practicable to put dogs and rabbits quickly into a calm and regu-lar steep, with general and complete anaesthesia. In rabbits at least the sleep can be safely prolonged to eight hours or more, although ether and chloroform bring much risk after two hours. The method makes possible the painless electrocution of animals, an increase of voltage causing the loss of will and sensition to be followed by dessation of respiration and step-page of the heart, and mimals killed by this gradual action have been free from the severe lesions shown in the criminals excuted in New York. Elec-tric sleep has been induced several times in human subjects, the first trial having been on Prof. Leduc humself in 1902. The experience is not wholly agreeable, the loss of speech being fol-layed by loss of movement, and then by a sensation of dreamy conscious-ness and impending peril with no pew-er to cry out or raise a hand. There are no after effects.

One of the first products of rein-forced concrete is said to be the boat of L, de Minoval, which was built in 1849 of concr te, imbedding steel net-ting, and is still in existence, in good condition, and watertight. Ventilation through from columns is an interesting feature of a mill at Pres-ton England. Air is drawn in at ground level, forced by fans through a water spray, heated by colls in the usual way, and then distributed from subducts below the basement level to the differ-ent rooms, the from columns having registers near their tops. Flues in the walls provide for the escape of air from these rooms.

The pneumatic locomotives of large German mines have an air tank in place of the boller in steam locomo-tives. The air is stored at a pressure of 760 to 1.000 pounds per square inch, and its expansion gives a safe, reliable and obsers nover ind cheap nower.

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CURED HEMORRHAGES OF THE LUNGS.

LUNGS. "Several years since my lutigs were so hadly affected that I had many hermor-rhages." writes A. M. Ake, of Wrod-Ind. 'I rock treatment with several physicians without any benefit. I (new started to take Foley's Honey and Tar-and my lungs are now as sound as a bullet. I recommend II in advanced stakes of lung trouble." Foley's Honey and Tar-stops the cough and heals the langs, and prevents serious results from a cold. Re-fuse substitutes. For sale by F. J. Hitt Drug Co., "The never substitutors."

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