

Rapid Growth in the Use of Aerial Tramways.

The adaptability and economy of aerial tramways for transportation of ore in mountainous localities are well exemplified in the line recently built by the Trenton Iron Co. of Trenton, N. J., for the Utah Consolidated Mining Co., at Bingham canyon, Utah, which is 28,000 ft. long, and with a fall between the terminal stations of 1,325 ft. This line, which is designed for a capacity of 100 tons per hour when running up to full capacity, is estimated to develop about 74 horsepower, with no back freight on the line. As the power developed, however, may vary considerably, according to the conditions under which they happen to be operating, and at times when they carry back freight, for instance, power may be required, electric motors are provided, operating in such a way that they serve as controllers or motors, as the conditions may demand.

The line is divided into three sections, the first section, 4,600 ft. long, extending from the loading terminal to the summit of the mountain, 1,455 ft. above the loading terminal. The second section, which extends from the mountain summit to an intermediate station 1,500 ft. below, is 3,760 ft. long, while the balance of the distance is covered by the third section and has a fall of 1,219 ft.

The track cables used are 1 1/2 in. diameter on the loaded side and 1 in. diameter on the empty side, and are of the patent locked-coil construction made by the Trenton Iron Co. The traction rope used is 1 1/16 in. diameter, of Seale construction, Lang lay. From tension station No. 2 to the summit the line make a clear span of about 1,100 ft.

The two motors used to operate the line are located one at the station on the mountain summit and the other at the intermediate station joining sections 2 and 3. The station on the mountain summit is really a connecting station joining stations 1 and 2, which, when running to full capacity of 100 tons per hour, require from 2 1/2 to 26 horsepower. The third section is practically an independent line, developing about 10 1/2 horsepower when running at full capacity and the motor at the intermediate station constituting the upper terminal of the third section is so designed that when running at normal speed, it acts as a generator, and, therefore, supplies all the power necessary for running sections 1 and 2, with an excess that is absorbed by brakes. The arrangement, therefore, meets all conditions, the motors serving to supply such power as may be required in starting the line, especially after it may have been stripped of the carriers, and also utilizing the large amount of power developed after the line is fully loaded and running up to full capacity.

Two hundred and twenty-two carriers are used in all, 210 on the line and 12 at the stations, with 8 cu. ft. steel buckets and patent automatic underhung grips, and these carriers are moved at a speed of 600 ft. per minute. The Trenton Iron Co. is engaged in the building of a line for the Nevada Mining, Reduction & Power Co. at Dayton, Nev., 20,580 ft. long, which will be used for transporting ore, this line being designed for a capacity of 25 tons hourly, and also a number of smaller lines.—William Hewitt in Denver Mining Science.

A letter received from private sources at Polaris says that Charlie Sam, the noted Chinaman and T. J. McDowell and other parties have located a gold bearing ledge thirty feet wide and a mile long upon which the average assays in gold run from 138 to 1008 per ton. The new strike is located between Castle Dome and the Colorado river, about eight miles from Horse Tanks. It is reported that there is a very great excitement at Polaris over the strike. The locators have started out with a four horse team with men, tools and provisions to begin work on their new find. Only meager information has as yet come to Yuma, but from what has drifted in it would seem that a very rich location has been made and the possibilities are immense.—Yuma Sun.

A pretty chair or rocker makes a lovely present. Have one laid aside for you at Lovin & Withers Co.

The finest line of holiday goods ever received in Kingman will be put on display at the Pioneer Drug Store early in December.

Smelter to be Erected Near Twin Buttes Mine.

That a smelter will be installed in the neighborhood of the Twin Buttes junction either by the Twin Buttes mining company or by the El Paso Smelting and Refining company is regarded as certain by residents of that district since the beginning of ore shipments from the mine to El Paso for smelting.

It is stated that a representative of the El Paso smelter on the occasion of a recent visit to the mine stated that if the ore shipments continued to increase the El Paso people will establish a branch smelter near the Twin Buttes ores without the long railroad haul, and also to catch the ores from the smaller or non-producing properties.

It is also stated by friends of Michael Earle, president of the Twin Buttes company, that if no one else builds a smelter near his property he will erect one himself, although he prefers to have someone else do it because of the large amount of business which he already has to claim his attention.—Tucson Citizen.

Rich Ore Body is Reported Found.

A Phenix dispatch says: Word has just been received that the management of the White Cloud mine had again encountered the original ore body which it penetrated at the surface when the sinking of the shaft was begun. The new discovery is at the end of a drift on the 400 foot level, but how far from the shaft was not learned.

The White Cloud is in the Picacho mining district, Yavapai county, some eight or ten miles due north of Morristown, and has been quite extensively developed, though its lower workings have been largely through barren ground. The vein passed through near the surface, it is said, carries from 128 to 208 in gold, and was a promising proposition. But the veins did not choose to go straight down like the shaft did, hence it has been necessary to probe around for the rich places below. The White Cloud is equipped with a good mill, and in former days was operated more or less.

Then the property was shut down for a long time, operations being resumed again several months ago. If a good body of ore has been uncovered it should not be a very long time until the mine is again in the producing list.

Swansea and Vivian are names well known to metallurgy. It is interesting to note that according to the terms of the will of R. G. Vivian, who died last June, 40,000£ is to be set aside to found and endow Glynn Vivian Miners' Missions, one each in the United Kingdom, France, Spain, Germany, Siberia, Russia, South Africa and Chile. The list suggests the width of interest of the firm of Vivian & Sons. It is proposed to build halls "to be made as comfortable and attractive as possible with books, newspapers, and a supply of tea and coffee, so as to draw miners and other persons whom the halls are intended to benefit, away from the drinking bars." Many such attempts have been made, not always with great success. Such clubs, however, are to be encouraged even if they are not always appreciated. The purpose of the gift may be commended, as well as the spirit that led Mr. Vivian to try to make some return to the great industry from which he drew his wealth.—Mining & Scientific Press.

A letter received from private sources at Polaris says that Charlie Sam, the noted Chinaman and T. J. McDowell and other parties have located a gold bearing ledge thirty feet wide and a mile long upon which the average assays in gold run from 138 to 1008 per ton. The new strike is located between Castle Dome and the Colorado river, about eight miles from Horse Tanks. It is reported that there is a very great excitement at Polaris over the strike. The locators have started out with a four horse team with men, tools and provisions to begin work on their new find. Only meager information has as yet come to Yuma, but from what has drifted in it would seem that a very rich location has been made and the possibilities are immense.—Yuma Sun.

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Mine Warning Notice.

To Whom it May Concern: Notice is hereby given that the Connor and Minnesota lode mining claims, situated in Wallapai mining district, near the town of Wallapai, Mohave County, Arizona, together with the mill, mill building, hoisting plants, machinery and appurtenances thereto belonging, are under lease and bond to parties working the same, and that neither the mines, nor machinery and buildings thereon, nor the owners thereof, will be responsible for any labor or debt contracted, nor injuries sustained by any employer or employee in working said properties; and that no employer or employee is the agent of the owner for any purpose, and that all operatives engage in such service at their own risk, and that no debt or claim of debt is valid against said mining claims or its owners. GEORGE CLELAND, Philadelphia, Pa., May 16, 1910. First insertion May 21.

Mine Warning Notice.

To Whom it May Concern: Notice is hereby given that the Belleflower mine, situated in Wallapai mining district, Mohave County, Arizona, is under lease and bond to parties working the same, and that neither the mine nor the owners thereof, nor the building nor machinery thereon, will be responsible for any labor or debt contracted, nor injuries sustained by any employer or employee in working said property; and that no employer or employee is the agent of the owner for any purpose, and that all operatives engage in such service at their own risk, and that no debt or claim of debt is valid against said mining claim or its owners. K. E. KIER, L. F. ROTHE, Kingman, Arizona, Dec. 29, 1909. First insertion Dec. 25.

Application for United States Patent.

Survey No. 2830. Serial No. 012354. UNITED STATES LAND OFFICE, Phoenix, Arizona, October 13, 1910.

Notice is hereby given that John Barry, by John Mulligan, his attorney-in-fact, whose post office address is Kingman, Arizona, has made application for patent to the Towne, Bryan and Wonder lode mining claims, situated in Wallapai Mining District, Mohave County, Arizona, under sections 10, 11, 14 and 15, T. 23 N., R. 18 W., as follows: TOWNE LODE, Beginning at cor. No. 1, whence corner to sections 10, 11, 14 and 15, T. 23 N., R. 18 W., bears S. 78° 02' E. 1488.2 ft. to cor. No. 2; thence S. 78° 02' E. 600 ft. to cor. No. 3; thence S. 78° 02' E. 1500 ft. to cor. No. 4; thence S. 78° 02' E. 1500 ft. to cor. No. 1, the place of beginning. Area 20.653 acres.

WONDER LODE, Beginning at cor. No. 1, whence corner to sections 10, 11, 14 and 15, T. 23 N., R. 18 W., bears S. 74° 52' E. 4481.57 ft. to cor. No. 2; thence S. 78° 27' W. 1500 ft. to cor. No. 2; thence N. 18° 49' E. 600 ft. to cor. No. 3; thence S. 78° 27' W. 1500 ft. to cor. No. 4; thence S. 78° 27' W. 1500 ft. to cor. No. 1, the place of beginning. Area 20.502 acres.

The location notices of these claims are recorded in the mining records of Mohave County as follows: Towne lode, in Book "N", page 267-268; Wonder lode, in Book "S", page 45. The adjoining claim on the N. E. corner of the Towne lode, is the Midnight lode, Survey No. 1359. FRANK H. PARKER, Register. First insertion October 22—Dec. 24.

Mine Warning Notice.

To Whom it May Concern: Notice is hereby given that the mining properties known as the Spread Eagle, Gold Eagle, Bald Eagle, West End, West End West, East Mines, situated in Wallapai mining district, Mohave County, Arizona Territory, are under bond to parties working the same, and that neither the mines nor their owners thereof, will be responsible for any labor or debt contracted, nor injuries sustained by any employer or employee in working said property; and that no employer or employee is the agent of the owner for any purpose, and that all operatives engage in such service at their own risk, and that no debt or claim of debt is valid against said mining properties or their owner. S. A. TYLER, Register. First insertion May 1, 1907.

Notice of Application for United States Patent.

Survey No. 2825. Serial No. 012317. UNITED STATES LAND OFFICE, Phoenix, Arizona, October 6, 1910.

Notice is hereby given that in pursuance of the Act of Congress passed May 16, 1872, Chapter 75, the office address is Kingman, Mohave County, Arizona Territory, has made application for a patent for 1500 linear feet on the Manitowoc, Manitowoc No. 1 and Manitowoc No. 2 lodes, bearing as follows:

The course of said lode on the Manitowoc being N. 78° 29' W. 1447 ft. to the west end center and 53 ft. S. 78° 29' E. to the east end center from the initial location monument, with surface ground 300 ft. upon each side of the center of said lode. The course of said lode on Manitowoc No. 1 being N. 45° 33' W. 306 ft. to the west end center, and S. 45° 33' E. 348.8 ft. E. 882.2 ft. to the east end center from the initial location monument, with surface ground 300 ft. upon each side of the center of said lode. The course of said lode on Manitowoc No. 2 being N. 72° 30' W. 993 ft. to the west end center, and S. 72° 30' E. 507 ft. to the east end center from the initial location monument, with surface ground 300 ft. upon each side of the center of said lode; all of said lode claims being situated in the Chemehuevis Mining District, county of Mohave, Territory of Arizona, approximately, T. 19 N., R. 18 W., G. & S. R. B. & M., unsurveyed, and in latitude 34° 26' N., and described by the official plat herewith posted and by the field notes on file in the office of the Register of the Phoenix Land District, Arizona, as follows, viz:

MANITOWOC LODE, Beginning at cor. No. 1, A quartz stone, 20x24x30 ins., set 12 ins. in the ground, with mound of stone, chiseled 1-2525 M and 1-2525 M. No. 1 on their respective faces, cross (x) at corner point, whence U. S. M. M. No. 2825, bears N. 59° 04' E. 257.7 ft; thence S. 11° 31' W. Va. 14° 41' E. 600 ft. to cor. No. 2; thence N. 78° 29' W. Va. 14° 39' E. 1500 ft. to cor. No. 3; thence N. 11° 31' E. Va. 15° 45' E. 600 ft. to cor. No. 4; thence S. 78° 29' E. Va. 14° 31' E. 1500 ft. to cor. No. 1, the place of beginning; containing 20.661 acres; notice of said location being recorded in Book "P" at pages 591 and 592 of the Mining Records of the County of Mohave in the Territory of Arizona.

MANITOWOC NO. 1 LODE, Beginning at cor. No. 1, identical with cor. No. 1, Manitowoc lode of this survey, whence U. S. M. M. No. 2825, Chemehuevis Mining District, bears N. 59° 04' E. 257.7 ft.; thence S. 45° 33' E. Va. 14° 41' E. 651.8 ft. to cor. No. 2; thence S. 88° 04' E. Va. 15° 29' E. 848.2 ft. to cor. No. 3; thence N. 11° 31' W. Va. 15° 34' E. 600 ft. to cor. No. 4; thence N. 88° 04' W. Va. 14° 01' E. 848.2 ft. to cor. No. 5; thence N. 45° 33' W. Va. 15° 01' E. 651.8 ft. to cor. No. 6; thence N. 11° 31' E. Va. 14° 30' E. 600 ft. to cor. No. 1, the place of beginning; containing 20.549 acres; notice of said location being recorded in Book "P" at pages 793 and 794 of the Mining Records of the County of Mohave in the Territory of Arizona. FRANK H. PARKER, Register. First insertion Oct. 15—Dec. 17.

Mineral Application.

Survey No. 2822. Serial No. 012422. UNITED STATES LAND OFFICE, Phoenix, Arizona, October 19th, 1910.

Notice is hereby given, that Boundary Cone Gold Mines Company, by C. W. Herndon its Attorney in Fact, whose Post Office Address is Kingman, Arizona, has made application for patent for the Surprise East Extension, Surprise, Surprise West Extension, Great Eastern, Great Eastern Extension, Boer and Apex Lode Mining Claims, Survey No. 2775, situated in San Francisco Mining District, Mohave County, Arizona, approximately in T. 19 N., R. 20 W., G. & S. R. M., unsurveyed, described as follows:

SURPRISE EAST EXTENSION, Beginning at cor. No. 1 from which U. S. L. M. No. 1602 bears N. 42° 09' 40" W. 5608.39 ft. distant. Thence S. 22° 36' W. 600 ft. to cor. No. 2. Thence S. 90° 10' E. 530 ft. to cor. No. 3. Thence S. 78° 10' E. 2411.7 ft. to cor. No. 4. Thence N. 22° 36' E. 600 ft. to cor. No. 5. Thence N. 78° 05' W. 1285.8 ft. to cor. No. 1, the place of beginning; containing 16.448 acres, exclusive of Sur. No. 2775, Alice Lode.

Variation at all cor. 15° E. SURPRISE, Beginning at cor. No. 1, from which U. S. L. M. No. 1602 bears N. 33° 58' 20" W. 4766.24 ft. distant. Thence S. 22° 36' W. 600 ft. to cor. No. 2. Thence S. 78° 28' E. 1130 ft. to cor. No. 3. Thence N. 22° 36' E. 600 ft. to cor. No. 4. Thence N. 78° 21' W. 500.5 ft. to cor. No. 5. Thence S. 43° 45' W. 161.7 ft. to cor. No. 6. Thence N. 65° 16' W. 547.6 ft. to cor. No. 1, the place of beginning.

Variation at all cor. 15° E. SURPRISE WEST EXTENSION, Beginning at cor. No. 1, from which U. S. L. M. No. 1602 bears N. 23° 59' 20" W. 3706.68 ft. distant. Thence S. 22° 36' W. 600 ft. to cor. No. 2. Thence S. 65° 05' E. 1254.4 ft. to cor. No. 3. Thence N. 22° 36' E. 600 ft. to cor. No. 4. Thence N. 64° 13' W. 1294.5 ft. to cor. No. 1, the place of beginning.

Variation at all cor. 15° E. GREAT EASTERN, Beginning at cor. No. 1, from which U. S. L. M. No. 1602 bears N. 9° 11' 50" W. 2741.57 ft. distant. Thence S. 22° 36' W. Variation 14° 30' E. 440 ft. to cor. No. 2. Thence S. 56° 50' E. Variation 15° E. 1170.54 ft. to cor. No. 3. Thence S. 5° 47' E. Variation 15° E. 600.5 ft. to cor. No. 4. Thence N. 22° 36' E. Variation 15° E. 585 ft. to cor. No. 5. Then N. 57° 11' W. Variation 15° E. 1260.7 ft. to cor. No. 1, the place of beginning.

GREAT EASTERN EXTENSION, Beginning at cor. No. 1, from which U. S. L. M. No. 1602 bears N. 2° 49' 10" W. 428.13 ft. distant. Thence S. 22° 36' W. Variation 15° E. 106 ft. to cor. No. 2. Thence S. 8° 27' E. Variation 15° E. 445.7 ft. to cor. No. 3. Thence S. 66° 06' E. Variation 15° E. 491.1 ft. to cor. No. 4. Thence S. 78° 28' E. Variation 15° E. 128.8 ft. to cor. No. 5. Thence N. 22° 36' E. Variation 15° E. 440 ft. to cor. No. 6. Thence N. 47° 33' W. Variation 14° 30' E. 432.7 ft. to cor. No. 1, the place of beginning; containing 2.585 acres, exclusive of conflict with Gold Hill lode, unsurveyed.

BOER, Beginning at cor. No. 1, from which U. S. L. M. No. 1602 bears N. 45° 56' 50" W. 4865.71 ft. distant. Thence S. 22° 36' W. 600 ft. to cor. No. 2. Thence S. 65° 05' E. 1254.4 ft. to cor. No. 3. Thence N. 22° 36' E. 600 ft. to cor. No. 4. Thence N. 60° 50' W. 1394.76 ft. to cor. No. 1, the place of beginning; containing 12.753 acres, exclusive of Sur. No. 2243 Victor Lode, and exclusive of conflict with Surprise East Extension lode, this survey.

Variation at all cor. 15° E. APEX, Beginning at cor. No. 1, from which U. S. L. M. No. 1602 bears N. 60° 11' 30" W. 4906.96 ft. distant. Thence S. 18° 30' E. 433.6 ft. to cor. No. 2. Thence S. 18° 30' E. 433.6 ft. to cor. No. 3. Thence S. 78° 05' E. 212.8 ft. to cor. No. 4. Thence N. 18° 30' E. 10 ft. to cor. No. 5. Thence N. 56 deg. 47' W. 880.23 ft. to cor. No. 6. Thence S. 81° 58' W. 123.9 ft. to cor. No. 1, the place of beginning; containing 2.585 acres, exclusive of conflict with Boer lode, this survey. Variation at all cor. 15 deg. E.

Table with 2 columns: AREA ACRES, and values for various lodes and conflicts.

Area applied for 79.781. This claim is located in San Francisco mining district, Mohave County, Arizona, on unsurveyed land of the Great Eastern Extension, Survey No. 2775, conflicts with Boer lode, this survey, and is bounded as follows:

Gold Hill lode, unsurveyed, lies on north of Great Eastern and Great Eastern Extension Lodes, this survey, and conflicts with Great Eastern Extension Lode from cor. No. 6 nearly to cor. No. 2. Treasure Key Lode, unsurveyed, lies on North of Surprise West Extension Lode, this survey. Treasure Key Extension Lode, unsurveyed, lies on North of Surprise Lode, and West end of Apex Lode, this survey.

Victor Lode, Survey No. 2243, conflicts on North side of Boer Lode, this survey. Alice Lode, Survey No. 2775, conflicts with N. E. corner of Boer Lode, and N. E. corner of Surprise East Extension Lode, this survey. Boston Lode, Survey No. 2775, lies on East end Surprise East Extension Lode, this survey. York Lode, unsurveyed, conflicts with cor. No. 4 Surprise East Extension Lode, this survey. Big Andy Lode, unsurveyed, claimant unknown, lies South of Surprise East Extension Lode, this survey.

Golden Gate Lode, unsurveyed, lies on south side of Great Eastern and Great Eastern Extension Lodes, this survey. Trevellick Lode, Survey No. 1699, lies on West end of Great Eastern Lode, this survey.

Any and all persons claiming adversely the mining grounds, veins, lodes, premises, or any portion thereof so described, platted and applied for, are hereby notified that unless their adverse claims are duly filed with the Register of the United States Land Office at Phoenix, Arizona, during the sixty days publication thereof, they will be barred by virtue of the statute in such cases made and provided.

FRANK H. PARKER, Register U. S. Land Office. First publication October 22—Dec. 24.

Mine Warning Notice.

To Whom it May Concern: Notice is hereby given that the property generally known as the Tyro group of mines, situated in the San Francisco mining district, Mohave County, Arizona, is under bond to parties working the same, and that neither the mines, nor the owners thereof, will be responsible for any labor or debt contracted, nor injuries sustained by any employer or employee in working said property; and that no employer or employee is the agent of the owner for any purpose, and that all operatives engage in such service at their own risk, and that no debt or claim of debt is valid against said mining claims or their owners. J. R. RUSSELL, Kingman, Arizona, May 21, 1910. First insertion May 21.

Mine Warning Notice.

To Whom it May Concern: Notice is hereby given that the Longstreet mine situated in Wallapai mining district, Mohave County, Arizona, is under bond and lease to parties working the same, and that neither the mine nor the undersigned owner thereof, will be liable or responsible for any labor, material or debt contracted, or injuries sustained by any employer or employee in working or improving said properties, and that no employer or employee is the agent of the owner for any purpose and all operatives engage in such service at their own risk, and that no debt or claim of debt is valid against said mining claims or property or the owner thereof. THOMAS BURKE, Kingman, Ariz., Aug. 6, 1910. First insertion Aug. 15, 1910.

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Notice of Hearing Petition for Letters of Administration.

IN THE PROBATE COURT OF THE COUNTY of Mohave, Territory of Arizona.

Notice is hereby given that Ross H. Blakely has filed in this Court a petition praying for Letters of Administration upon the estate of Eugene O'Hare, deceased, and that the same will be heard on Wednesday, the 7th day of December, A. O. 1910, at the hour of 10 o'clock a. m., in the Courtroom of said Court, in the town of Kingman, County of Mohave, Territory of Arizona, and all persons interested in said estate are notified then and there to appear and show cause, if any they may have, why the prayer of said petitioner should not be granted.

L. M. TEALE, Clerk of the Probate Court.

Dated at Kingman, Arizona, this 25th day of November, A. D. 1910.

First insertion Nov. 25—Dec. 3

Mine Warning Notice.

To Whom it May Concern: Notice is hereby given that the Nighthawk mine, situated in Wallapai mining district, Mohave County, Arizona, is under bond to parties working the same, and that neither the mine nor the owner thereof will be responsible for any labor or debt contracted, nor injuries sustained by any employer or employee in working said property; and that no employer or employee is the agent of the owner for any purpose, and that all operatives engage in such service at their own risk, and that no debt or claim of debt is valid against said mining claim or their owner. NIGHTEHAWK MINING CO. GEORGE M. BOWERS, Supt. Kingman, Arizona, March 6, 1902.

Mine Warning Notice.

To Whom it May Concern: Notice is hereby given that the Tarrs mining claim, situated in Wallapai mining district, Mohave County, Arizona, is under bond to parties working the same, and that neither the mine nor the owner thereof will be responsible for any labor or debt contracted, nor injuries sustained by any employer or employee in working said property; and that no employer or employee is the agent of the owner for any purpose, and that all operatives engage in such service at their own risk, and that no debt or claim of debt is valid against said mining claim or their owner. W. A. L. TARR, Fort Morgan, Col., Jan. 22, 1910.

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