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PRINTED: 12-01-2005

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: ARKANSAS AND ARIZONA CLAIMS

ALTERNATE NAMES:
ROYAL IRISH GROUP

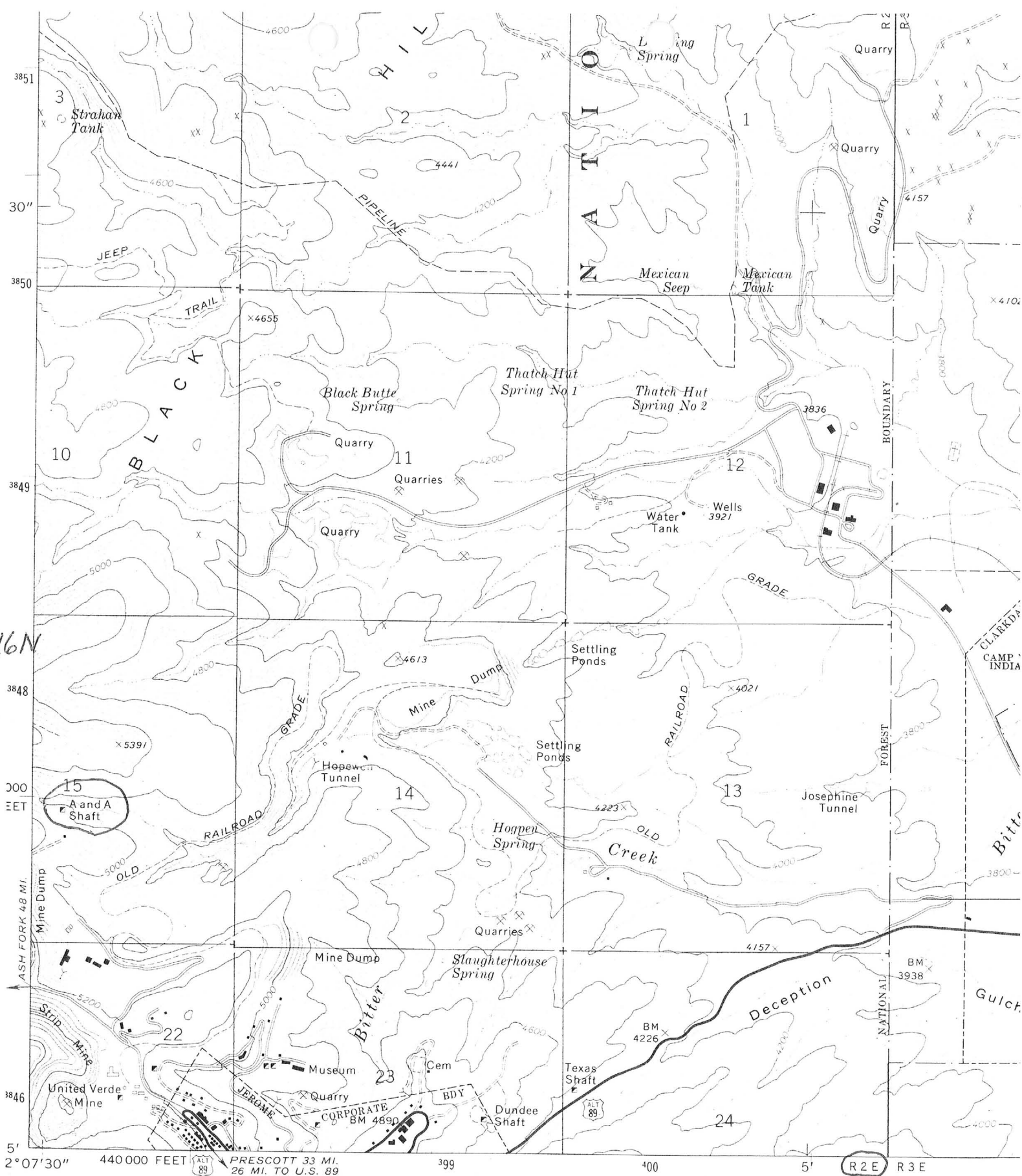
YAVAPAI COUNTY MILS NUMBER: 548B

LOCATION: TOWNSHIP 16 N RANGE 2 E SECTION 15 QUARTER C
LATITUDE: N 34DEG 45MIN 54SEC LONGITUDE: W 112DEG 07MIN 25SEC
TOPO MAP NAME: CLARKDALE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
COPPER

BIBLIOGRAPHY:
USGS CLARKDALE QUAD
LINDGREN, W. ORE DEPTS. JEROME & BRADSHAW MTN
QUADS USGS BULL 782 1926 P 96
WEED, W.H. MINES HANDBOOK VOL 13 1918 P 396
ADMMR ARKANSAS AND ARIZONA CLAIMS FILE



Mapped, edited, and published by the Geological Survey

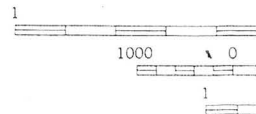
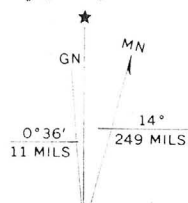
Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1972. Field checked 1973

Projection and 10,000-foot grid ticks: Arizona coordinate system, central zone (transverse Mercator)

1000-metre Universal Transverse Mercator grid ticks, zone 12, shown in blue. 1927 North American datum

CLARKDALE 7.5



JEROME (VERDE) DISTRICT, YAVAPAI COUNTY

This list includes several companies operating at Payson, in the Tonto Basin country.

ARIZONA VERDE COPPER MINING CO.

Mail returned from the advertised post-office address: c/o W. M. Lazenby, P. O. Box 814, Phoenix, Ariz.

Property: 26 claims, near Clarkdale, a $\frac{3}{4}$ interest in 16 claims in the New River district and 41 claims in the Cave Creek district. Company also has a 2-year option on 1,700,000 shares of stock in the Golden Reef Mining Co., owning the Golden Reef mine, 35 miles from Phoenix. Offering stock at 50c a share, May, 1917, solely on the prospective value of its holdings, calling itself "a corporation, with the possibilities of another Guggenheim Exploration Company," which is interesting, if true.

ARKANSAS & ARIZONA COPPER CO.

Office and mine: Jerome, Yavapai Co., Ariz. John F. Boyle, pres.; H. P. Tear, v. p.; J. E. Leeper, mgr., Jerome, Ariz.; H. N. Jasper, sec.-treas., Little Rock, Ark.; preceding officers and W. D. Tickner, directors; W. H. Galligan, supt.

Inc. June 25, 1906, in Arizona. **Cap.**, \$1,500,000; increased Jan., 1912, to \$3,000,000, and 1916 to \$6,750,000; shares \$1 par. Company refinanced in 1915 and bond issue of \$150,000 authorized for further development work; \$68,800 issued.

Property: the Royal Irish group, 14 claims, 280 acres in the Verde district. Claims show felsite porphyry and diorite cut by olivine basalt dikes running north and south and dipping 60° to the east. Orebodies lie on each side of the basalt in the porphyry and quartz schist. Orebody said to be 85' wide where encountered on 1,400' level and shows chalcopryite and some bornite. Extent of shoot not yet determined. Company acquired the adjoining claims, 230 acres, of the Mowles Copper Co. in May, 1916.

Development: by 1,650' shaft with about 6,000' of workings.

Equipment: includes three 150 h. p. boilers, 1 hoist good for 2,000', air compressors, machine shop, power house, and a mile of road, connecting with United Verde Copper Co. railroad. Employs 50 men. Controlled by the Goodrich-Lockhart Co., 60 Broadway, New York City.

The property was shut down indefinitely, August, 1917, after spending \$100,000 in a crosscut on the 1,000' level. The pumps are out, but conditions warrant drifting on the pyrite bodies cut in the crosscut, in the hope of getting copper ore.

BALLARD GROUP

Address: S. S. Ballard, Jerome, Ariz., owner. Formerly owned by United Verde, Jr. Co.

Property: 110 acres, 86 patented, at Jerome, midway between United Verde Copper Co. and United Verde Extension on the north and Copper Chief, Equator and Green Monster on the south. Development work amounts to 1,100'. Ore contains copper, gold and silver.

BIG JEROME COPPER CO.

Fiscal office: Arizona Securities & Trust Co., Phoenix, Ariz.

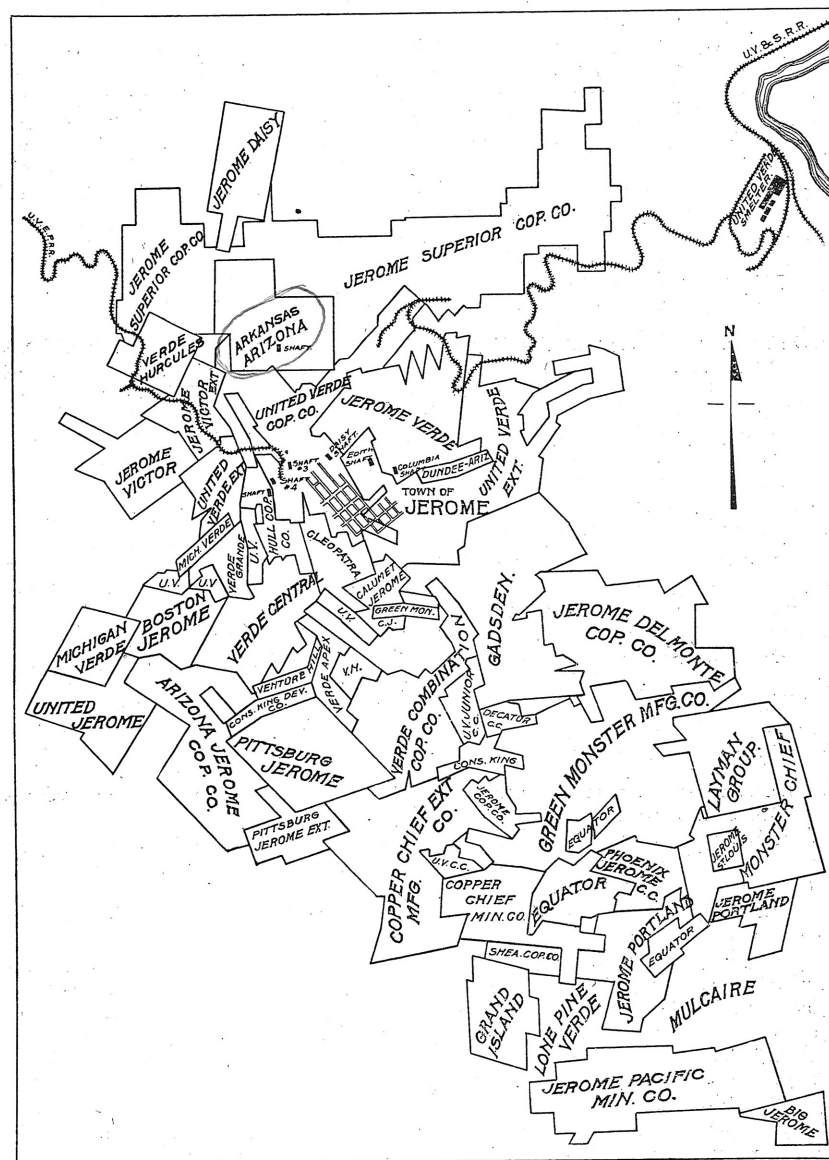
Officers: L. L. Wallace, pres.; F. M. Dorsey, v. p.; Fred T. Sheppe, sec.; above, with C. T. Talbert and J. B. Bourne, directors.

Inc. in Arizona. **Cap.**, \$2,500,000; shares 25c par; 5,000,000 shares given in payment for property are pooled, balance are said to be treasury share.

Property: 32 claims, about 640 acres, 1½ miles S. W. of the United Verde Co. and adjoining the Pittsburg Jerome property and the Copper Shoe group in the southern part of the camp, near the Shea group.

Company's promotion stock was advertised luridly at 10c a share in December, 1916, during the Jerome boom.

No development work of importance has been done on the property up to July, 1917. Unfavorably regarded. N. Y. Tribune shows it to be a twin fake of the Arizona-Ray of Wilson & Co.



PROPERTY MAP OF VERDE DISTRICT, ARIZONA



MINE OF THE ARKANSAS & ARIZONA COPPER CO., JEROME, ARIZ.

(The shaft is 1100 ft. deep, and is being raised from the 1400-ft. level. United Verde plant is on flank of hill well above the headframe in the center of the view.)

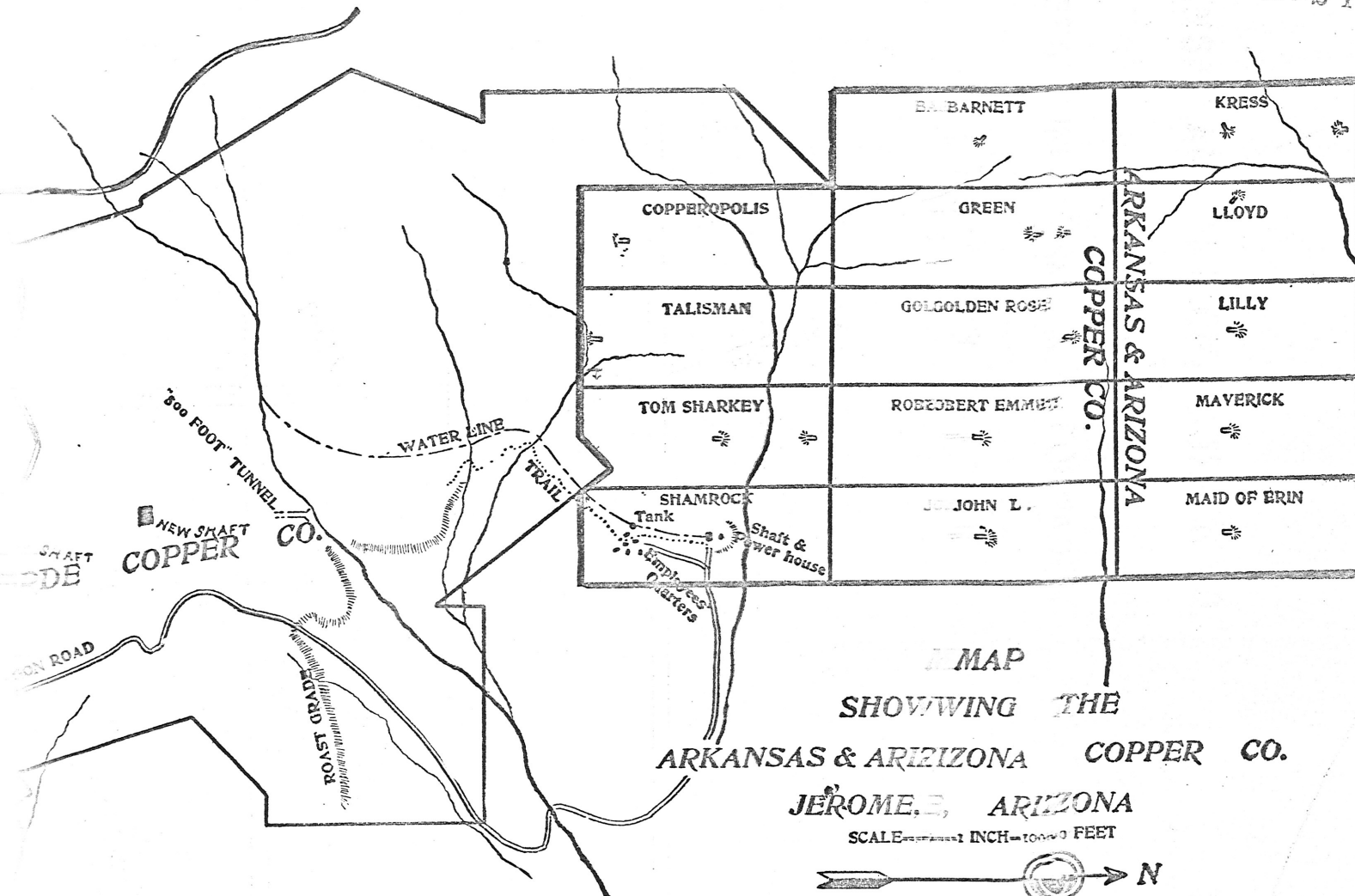
Jerome News: Due to the cramped condition of the money market all over the country, and especially the very low price of copper, the Arizona & Arkansas mines closed down completely this week. The hoist and pumps were pulled the first of the week, but mining men believe that the water will not rise higher than the 600 foot level. The management expect to commence work again within 30 days if the water does not rise higher than anticipated, work can be resumed in a short time, for the water will be fairly easy to pump, and the work will undoubtedly be pushed faster after the mine starts up again than it has been in the past. J. E. Leeper, the manager, and the Arizona & Arkansas Copper company have been great factors in making Jerome the best mining town in the West, having given employment to a large number of men and spent large amounts of money in development. It is with regret that the general public learned of the temporary shut-down, and everyone wishes the company a successful continuation of their operations in a short time.

JEROME, Aug. 22.—The drift from the 1650 level at the A. & A. is now 154 feet in length and from the looks of the formation they are getting very close to the fault where they expect to find a ledge of good ore. Owing to a broken crank shaft the men were laid off four days, but at present the whole force is working regularly. About the same progress with like results is being made on the Hull properties. All mines are drifting and still in that prospective condition. The Main Claim has struck a carbonaceous ore carrying copper and a little gold. The Cleopatra reports fast progress and steady employment of men.

The Arkansas and Arizona shaft, at a depth of 1,500 feet, recently encountered bunches of high-grade sulphides. It is stated that the shaft will probably be sunk to a depth of 2,000 feet before levels are extended to cut the ore chute on its dip. In the U. V. Extension, drifts are being run at the 1200 foot level in four directions—north, south, east and west. The west drift is being run to cut the oxidized ore bodies exposed in the 800-foot level of the Little Daisy shaft. At the Cleopatra they are taking ore from what is known as the Pender stope, and will start ship-plug in a few days. Drifting from the Hull tunnel is being continued, to tap the ore body exposed on the apex of the mountain.

General Manager Leeper, of the Arkansas and Arizona mines at Jerome, who recently returned from the east, states that it is the purpose of the company to sink the main working shaft to a depth of 2,000 feet. The shaft, which is now down 1,400 feet, is penetrating a zone of very hard jasper. This formation, it is believed, will soon be replaced by the softer rock of the kind heretofore penetrated. In the 1,200-foot level an eighty-five foot ore body was exposed, having a dip toward the shaft, and it is expected that the shaft will encounter this ore body before the 2,000-foot level is reached. It is stated that the company will resume the construction of the standard gauge spur from the main shaft of the A. and A. to connect with the railroad from the Clarkdale smelter to the great tunnel of the United Verde mines, thereby affording transportation for the A. and A. product direct to market without rehandling.

NOV 21 1915



OFFICERS AND DIRECTORS OF THE Arkansas & Arizona Copper Co.

W. A. VAUGHN, PRESIDENT
SOUTHERN TRUST COMPANY,
MEMPHIS, TENN., ARK.

J. T. ROBERTSON, DIRECTOR
MARIANNA, ARK.

S. P. PARK, DIRECTOR
SECY BRINKLEY WHOLESALE GROCERY CO.
BRINKLEY, ARK.

T. L. LYNCH, VICE-PRES.
JEROME, ARIZONA

J. E. LEEPER, MANAGER, MEMPHIS, TENN.

R. A. SMITH, SECRETARY
CASHIER BRANCH BANK OF ARIZONA
JEROME, ARIZONA

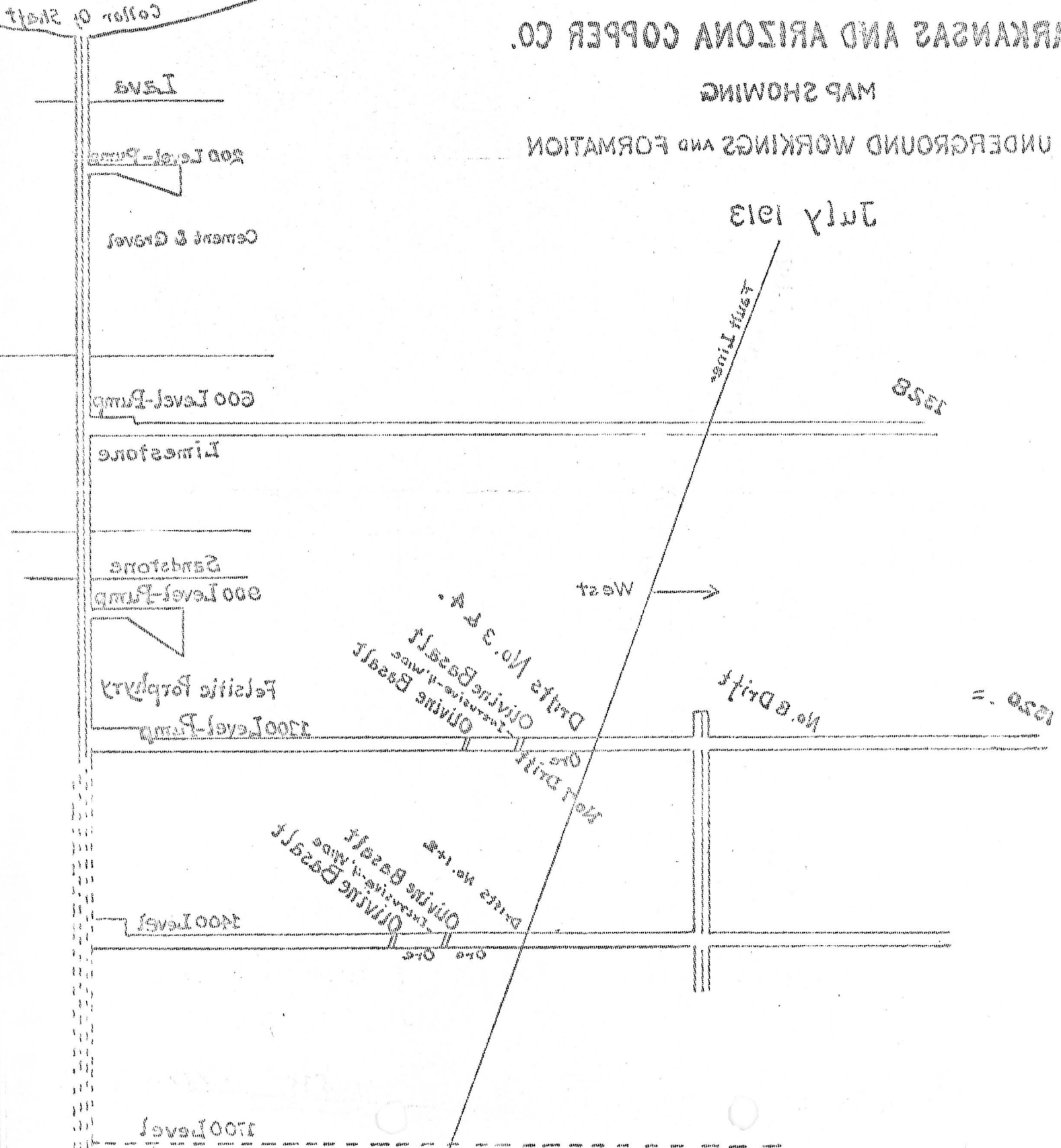
W. C. MILLER, TREASURER
MGR. T. F. MILLER CO., JEROME, ARIZONA

LINE OF FAULT BEARS NORTH 1 SOUTH
DIPANCE 350' ABOVE COLLAR OF SHAFT HERE.

ARKANSAS AND ARIZONA COPPER CO.

MAP SHOWING

UNDERGROUND WORKINGS AND FORMATION



LINE OF FAULT BEARS NORTH & SOUTH
SURFACE 150' ABOVE Collar of Shaft Here.

NOV 2 1913

ARKANSAS AND ARIZONA COPPER CO.

MAP SHOWING
UNDERGROUND WORKINGS AND FORMATION

July 1913

Fault Line

1328

West

1320

No. 8 Drift

Drifts No. 3 & 4.
Olivine Basalt
Intrusive - 4' wide
Olivine Basalt

No. 7 Drift

Drifts No. 1 & 2
Olivine Basalt
Intrusive - 4' wide
Olivine Basalt

Ore Ore

Lava

200 Level - Pump

Cement & Gravel

600 Level - Pump

Limestone

Sandstone
900 Level - Pump

Felsitic Porphyry
1200 Level - Pump

1400 Level

1700 Level

SUIT TO QUIET TITLE
AGAINST UNITED VERDE

Tucson
4/2/27

PRESCOTT.—Alleged filing by the United Verde Copper company recently of patent notice on sections of a lode mining claim to which the Arkansas and Arizona Copper company claims to hold title, led to the filing in the superior court of a suit to quiet title, instituted by the Arkansas and Arizona company, through its counsel, Chalmers, Stahl, Fennimore and Trugan.

The claim in question, the Diamond lode claim, is alleged to have been located on January 1, 1911, by William Bracken, who, after securing title to it in the prescribed legal manner, transferred it on January 18, 1911, to J. F. Mowles. Following recording of a notice of amendment of location on December 24, the claim was transferred to Halstead Lindsley on November 30, 1914. On October 30, 1915, Lindsley and his wife, Mar-

garet A. Lindsley, conveyed the claim to the Mowles Copper company, and on June 27, 1916, the claim was again transferred, this time to the Arkansas and Arizona Copper company, who now claim ownership.

Following filing in the land office at Phoenix on October 7, 1920, of a plat of survey and field notes of a claim called the Chrome Fraction lode mining claim, the plaintiff company filed adverse claim within the required time limit and followed by instituting the present action.

ARKANSAS & ARIZONA

DE QUEEN, ARK.—This place is the home of Leeper, of the Arkansas & Arizona, at Jerome. Many people in the neighborhood hold stock in that property. Can you tell me anything about its probable value.—A. R. C.

Reply: The A. & A. was reputed to have spent about \$600,000 in sinking a 1,400-foot shaft and exploration before work was abandoned in its earlier history. After the "Little Daisy" strike at Jerome, that established the value of the United Verde Extension, about \$250,000 more was spent in further development and exploration. It adjoins the United Verde and the United Verde Extension, but the management has not, as yet, been able to establish whether it is a mine or not.

Prescott. Suit to quiet title in a lode mining claim has been filed against the United Verde Copper Co. by the Arkansas & Arizona Copper Co. The complaint alleges that the United Verde is filing notice of patent on part of a claim to which the Arkansas & Arizona has title. The constitutionality of the mining-claims assessment exemption act will be brought into this suit, as proof of the title of the Arkansas & Arizona to the claim can be determined from the county records except with regard to the years 1917, 1918, and 1919, when no assessment work was done, although notice of intention to hold the claim was filed, and exemption asked under the act of Congress.—

Signs are plentiful that the Goodrich-Lockhart syndicate is going ahead with the development of the Arkansas & Arizona on a big scale, says the Jerome News.

Last week Dr. L. D. Ricketts, the famous smelter building and mining expert; Captain John C. Greenway, general manager of the Calumet & Arizona; Ira Joralemon, chief geologist of the C. & A.; Philip D. Wilson, Mr. Joralemon's assistant; and Will C. McKee, chief mechanical engineer of the C. & A., visited the A. & A. with David M. Goodrich, head of the Goodrich-Lockhart syndicate. Captain Greenway and Mr. Goodrich were members of the same Rough Rider company in Cuba and the C. & A. manager is understood to have offered his friend the assistance of himself and force in outlining a plan of procedure at the A. & A.

Just what the C. & A. people thought of the A. & A. will never be made public, of course, but it is now believed that their verdict was favorable. Various reports of what they said are in circulation but none can be verified.

At any rate there is more activity at the Arkansas since the Calumet & Arizona people were there than there was before. The force has been materially increased and more men are being hired every day. Hundreds of timbers have been cut ready for use underground.

Three shifts are working underground. Activity is centered in the crosscut southwest from the 1600-foot level, which is being cleaned out thoroughly and retimbered where necessary. This crosscut intersects the contact between 300 and 400 feet from the shaft. It is understood that no drifts of any length were run on the contact and there is a general belief that the plan of development includes extensive drifting there.

Little actual development can be accomplished till the two new electric pumps ordered for the A. & A. are delivered, and that will not be under a month or six weeks. Most of the present available power must be used in operating the present small pumps.

Old man Hagel has pitched his tent over at the Arkansas & Arizona and camped there.

Early this week the A. & A. people lost their bailer. It dropped down to the bottom of the sump and twisted some of the guides under water, so it cannot be recovered till the sump is unwatered.

Then a motor on the 300-foot level burned out and not in commission for two or three days. One pump was thus disabled and the 1640-foot level is now flooded.

It was in the southwest drift from the 1640 that favorable indications were encountered last week. The A. & A. management claims that the indications consisted only of iron stain in Jasper quartz, but some ore that undoubtedly carries a little copper has been shown around town as having come from that property.

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Arkansas and Arizona Copper Co.
file notice of exemption on 26 miles,
Verde district.

The strike of high-grade sulphide made recently in the east crosscut on the tenth level of the Arizona Commercial is regarded as very important. Conditions are similar to the thirteenth level, and there seems to be a probability that the sulphide will be found to continue unbroken to the fourteenth level.

Commenting on the discovery, the Boston News Bureau says:

Local investors generally do not appreciate the possibilities of Arizona Commercial. In former periods of copper share activity these shares have been boomed to very much higher figures than the stock is now selling for, with only a fraction of the merit in the present Arizona Commercial situation.

The striking of high-grade ore on the tenth level is a development of very great importance, as high-grade material has already been encountered, and, in fact, is being mined on the thirteenth and fourteenth levels, with the deepest level, the fourteenth, showing up the best. The management will immediately seek to the sixteenth and the prospects are that favorable ore developments will be met at this level.

On the fourteenth level the smelter ore is averaging 7 per cent copper and the concentrating ore about 4 per cent. The ore body shows extreme variations in width—from a few feet to over 40 feet. The average is perhaps in the neighborhood of 20 feet.

At the present time the Globe district is saturated with an excess of sulphide ore. It will be remembered that ten or fifteen years ago the Globe was condemned by many because of its lack of sulphide ores and the absence of any developed sulphide ore in the nearby vicinity. To-day the smelters are getting so much ore as that characterised by the high-grade material that the old property is being worked.

Arizona Commercial is a very important find, therefore, and is hoped to be of interest to the public. It is not yet known whether the ore will be developed within the next few years. The smelter plant of copper is now in the Verde district. This will be all the ore that the smelter needs for the present. Further development of the ore will be made in the future.

PHOENIX, Ariz., Oct. 24.—The corporation commission issued, for the week ending October 21, twelve permits for mining companies to sell their stock in the state. The names of the companies, the amount of stock authorized to be sold and the price are as follows:

Jerome Pacific Mining company, of Jerome, 800,000 shares at 50c per share; Verde Central Mines, Inc., of Prescott, Arizona, 1,00,000 shares at \$1.00 per share.

Victor Copper company, of Kingman, Arizona, 500,000 shares at 10c per share.

Arizona Western Copper company, of Kingman, Arizona, 300,000 shares at 12c per share.

Ash Spring Mining Co., of Douglas, Arizona, 47,500 shares at 10c per share.

Verde Apex Copper Mining company, of Prescott, Arizona, 100,000 shares at 25c per share.

Arizona Eastern Mining Co., of Kingman, Arizona, 400,000 shares at 1c per share.

Gila Canon Consolidated Copper company, of Phoenix, 600,000 shares at 10c per share.

Cinder Mines company, of Oatman, Arizona, 300,000 shares at 8c per share.

Signal Point Mining company, of Douglas, Arizona, 200,000 shares at 12 1/2c per share.

Empire Copper Mining company, of Phoenix, 400,000 shares at 25c per share.

Indications Had That Face of East Drift on 1640-Level Is Near Body of Good Ore.

JEROME, Dec. 2.—Copper water has been struck on the 1640-foot level of the Arkansas & Arizona and the drifts are coming out green.

This is not the only indication that the face of the east drift from the 1640 is near a body of copper. The face is in schist and white quartz which are heavily stained with iron and the formation is constantly becoming softer.

The stream of copper-impregnated water was encountered in the east drift early this week. Stories have been circulated that since then the drifts have come out with bright spots of copper upon them, but these are set down as exaggerations. There is no question, however, that the steel is being turned green.

Work is also going forward in the west drift from the 1640 and on the 1600-foot level.

One of the old pumps has been moved to the 1640. This and the two new electric pumps on the 900 and 1100 take care of the water in good shape.

Dewatering A. & A. Shaft

Dewatering of the old Arkansas and Arizona shaft is progressing rapidly. Little trouble is being encountered, even though the machinery and equipment being used in the work had lain idle for a long time, until the property was recently taken over by the Goodrich-Lockhart syndicate. Until the workings are drained it will be impossible for any real mining or development to be made. Under the direction of the superintendent Galligan, the force of 16 men has reached the 900-foot level and will soon have the shaft completely dewatered.

The shaft of the Jerome Verde is now enlarged to three compartments down to the 325-foot level. A bulkhead, installed at that point to catch the rock taken out above it in the enlarging operations, was torn out several days ago and the pump started once more. Another bulkhead will be placed at the 220-foot level and enlarging resumed.

A stringer of yellow sulphide has been opened in the main shaft on the Jerome-Portland property. Although only a stringer formation a few inches wide, the ore runs very high, in fact, it is declared to be almost solid copper. The Jerome-Portland shaft is being sunk by hand, pending the installation of machinery, which is already on the ground.

(Special to The Gazette)
(By Earl Beckett)

JEROME, July 26.—Jerome stock have held to a firmer tone this week than for some time past. United Verde Extension, Jerome Verde, Pittsburgh, Jerome and Jerome Victor Extension have been noticeably strong; the only stock to show any signs of weakness or fluctuation downward has been Arkansas & Arizona, and that is not due to any general conditions which affect the market. The explanation for this unexpected feature for this stock at the time when actual work on the ground is under way is due to a little business in smelting operations, as they were to have been under way some time back.

The midsummer dullness generally prevalent to a degree all over the country has scarcely been felt in Jerome, where mining activity continues unabated, and every company started this spring is actively engaged in development work, with several others now making preparations. The only indication that a dull season is upon us is a slackening in sales, practically all blocks being held until the expected change in the market in the fall takes place in preference to taking any loss than a profit on them. The period of liquidation seems about over, and developments from now on are sure to bring about a more decided improvement.

Pittsburgh-Jerome

A persistent rumor of a strike of a body of high grade ore at the Pittsburgh-Jerome has gained considerable credence here. The management, while not denying the rumor, refuses

THE A. & A.

YELLOW SULPHIDES IN WEST CROSSCUT, BLACK IN EAST, ENCOURAGE MINERS

Expensive improvements being made at the Arkansas & Arizona indicate that if the Goodrich-Lockhart people have not yet developed a mine they have no doubt of their ability to do so.

The 1640-foot station is being blasted out and enlarged in order to afford room for the laying of a sidetrack. Ten new ore cars of the most modern type have been ordered. When they are delivered the A. & A. rolling stock will total 22 cars.

A fifteen-inch air line is being placed in the shaft and twelve-inch lines are to be placed in all drifts and crosscuts. The present air line in the shaft is four inches in diameter.

A steel-sharpening outfit has been ordered and will be delivered in a few days.

Practically no work is being done in the east and west crosscuts from the 1640-foot level while the station there is being enlarged. The west crosscut has recently passed through several stringers of yellow copper sulphide. Caving ground is causing a great deal of trouble in that part of the mine.

Just before work was suspended in the east crosscut several tons of black copper sulphide came in.

The owners of the Arkansas & Arizona have no doubt that both crosscuts are near ore. All are increasing their holdings of A. & A. stock. One shift has just sold 1,000 shares on the street at 10c.

The total force employed is now close to 75.

Jerome News: C. W. Clark, President of the Arkansas and Arizona Copper Company arrived Saturday evening from Little Rock, Arkansas, on business in connection with the property of the company here. Mr. Clark remained in Jerome until Tuesday morning, at which time financial arrangements had been concluded, with New York financiers providing for development of the property. President Clark stated before leaving, that work would be resumed immediately and that in 30 to 60 days the mine would be in operation with a good sized force of men at the works. In the meantime Hammond Matthews has been placed in charge at the mine until the necessary arrangements for starting up the work can be completed. Mr. Matthews was formerly electrical engineer at the A. & A. at the time some preparatory work was done in the fall.

will see development work actually under way at the Arkansas & Arizona

The two big electric pumps ordered some time ago are already on the way and may be delivered any day. They will be installed immediately on the 1100 and 1600 foot levels. All preparations for their installation have been made.

When the new pumps are in place the old ones will be pulled out. They have been effectual in keeping the water down but are operated by the motors which are required to furnish power for development.

The west and east crosscuts from the 1600 are to be continued in the search of ore bodies believed to lie in these directions. The west crosscut is already 750 feet from the shaft and has cut the contact. That to the east has been driven only 150 feet. It is to be continued on toward North Verde ground, where a great many persons believe the richest ore on the entire A. & A. property will be developed.

There is also a crosscut westward from the 1100-foot level, commonly spoken of as the 1200. It is badly caved in and is now being cleaned out. Whether further work will be done on this level is to be decided after an examination of the crosscut is made by Engineer Halstead Lindsay.

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JEROME, Aug. 24.—Authentic information concerning the stage of operations at the Arkansas & Arizona indicates that the completion of unwatering the underground workings is in sight. The water level is now 150 feet below the 1,400 level, and with no serious drawbacks, the bottom of the 1,600-foot shaft should be reached within three or four days, at least. The pumps are all in position as far as the work has progressed. It is understood new drilling equipment of modern pattern is on hand, and all is in readiness to put the plans of the development for actual development work into operation.

Nothing definite has been given out concerning the course of the development work to be undertaken in the near future, but the holding of additional ground of extensive area other than that formerly in the control of the companies previously working suggests that development in a direction different to that ever undertaken by work in the past is probable.

Actual development of the Arkansas & Arizona should be under way once more within two weeks.

The shaft is now free of water below the 1200-foot level. The pumps at the 200, 600, 900 and 1200 are now working. Within a day or two the 1600-foot level should be free of water and then the condition of the lower workings can be determined with absolute certainty.

No detailed examination of the workings on the 1200 has been made but it is stated that they are in as good shape as was expected.

It has been found that about all the water makes above the 1200 and does not come from below. The pumps have proven themselves entirely adequate to take care of the flow, and water will be no great problem at the A. & A.

David M. Goodrich, president of the Goodrich Tire company and Goodrich-Lockhart syndicate, which controls the A. & A. and North Verde, arrived from New York Sunday with his engineer, Halstead Lindsay. They did not even go down the shaft but looked over the plant thoroughly and discussed future plans with those in charge. A general development plan was agreed upon but its details have not been made public. Monday afternoon James S. Douglas, of the United Verde Extension, looked over the A. & A.

Goodrich and Lindsay left Tuesday for the east. The engineer will return in about six weeks.

JEROME, July 29.—The unwatering of the shaft at the Arkansas & Arizona is progressing rapidly with a minimum of trouble in spite of the fact that the machinery and equipment in use has lain on the ground during the period of idleness since the mine closed down. The force of 16 men is approaching the 900 level, and losing no time in baling out the water element which prevents any possibility of real mining or development work until the workings are drained. Superintendent Galligan is on the ground. Hammon Matthews, who has remained with the A. & A. during the recent interval of inactivity has been engaged as master mechanic and Alex Peterson as mine foreman.

Special Correspondence.

JEROME, July 11.—W. H. Galligan, new superintendent, appointed by the Goodrich-Lockhart people, to take charge of immediate development work on the old Arkansas & Arizona property here, arrived in town today and will have a crew started on unwatering the old shaft immediately.

The Goodrich-Lockhart people who took charge of the destinies of the A. & A. a little over a month ago have completed preliminary examinations and are now ready to commence work on the Jerome copper revival with the determination which has characterized the success of Goodrich-Lockhart enterprises all over the world.

Working—Activity on 1600 Level of Property.

JEROME, Oct. 14.—Signs are plentiful that the Goodrich-Lockhart syndicate is going ahead with the development of the Arkansas & Arizona on a big scale.

The force has been materially increased and more men are being hired every day. Hundreds of timbers have been cut ready for use underground.

Three shifts are working underground. Activity is centered in the crosscut southwest from the 1600-foot level, which is being cleaned out thoroughly and retimbered where necessary. This crosscut intersects the contact between 300 and 400 feet from the shaft. It is understood that no drifts of any length were run on the contact and there is a general belief that the plan of development includes extensive drifting there.

Little actual development can be accomplished till the two new electric pumps ordered for the A. & A. are delivered and that will not be under a month or six weeks. Most of the present available power must be used in operating the present small pumps.

ARKANSAS & ARIZONA.

Jerome, Ariz.—Expensive improvements being made at the Arkansas & Arizona indicate that if the Goodrich-Lockhart people have not yet developed a mine they have no doubt of their ability to do so.

The 1,640-foot station is being blasted out and enlarged in order to afford room for the laying of a sidetrack. Ten new ore cars of the most modern type have been ordered. When they are delivered the Arkansas & Arizona rolling stock will total 22 cars.

A fifteen-inch air line is being placed in the shaft and twelve-inch lines are to be placed in all drifts and crosscuts. The present air line in the shaft is four inches in diameter.

A steel-sharpening outfit has been ordered and will be delivered in a few days.

Practically no work is being done in the east and west crosscuts from the 1,640-foot level while the station there is being enlarged. The west crosscut has recently passed through several stringers of yellow copper sulphide. Caving ground is causing a great deal of trouble in that part of the mine.

Just before work was suspended in the east crosscut several slips of black copper sulphide came in.

The miners at the Arkansas & Arizona have no doubt that both crosscuts are near ore. All are increasing their holdings of Arkansas & Arizona stock. One shift boss picked up 1,000 shares on the street this week.

The total force employed is now close to seventy.

COPPER SULPHIDE

STRUCK AT A. & A.

SMALL BUNCHES, BUT INDICATIONS ARE THAT BIG BODY IS NOT FAR AWAY.

Miners at the Arkansas & Arizona expect any round of shots to break into a big body of high-grade ore. Indications, which have been excellent for weeks, are far better than they ever were before. This applies to both the west and east crosscuts from the 1,640-foot level.

The west crosscut has passed

through several stringers of sulphide ore this week. The last and richest stringer, cut Thursday afternoon, is heavy with copper and can be classed as high-grade. Flocks of peacock copper show in the yellow sulphide.

Apparently the east crosscut is passing out of the oxidized zone and into the zone where sulphides can be expected. The face of the crosscut is in quartz and schist.

Once more the 1,640-foot level of the Arkansas & Arizona is flooded.

This level became flooded last week, due to the loss of the boiler and the burning out of a motor.

Early this week the damage was repaired and the level unwatered. A few shifts worked in the southwest drift in which were found the favorable indications responsible for the recent rise in A. & A. stock. Then the gears on one of the pumps were stripped and water once more drove the miners from the 1,640.

Amalgamation of two Jerome mining companies took place recently when the Mowles Copper Company sold to the Arkansas & Arizona Company all of its claims, improvements and machinery. What consideration was placed on the Mowles property is not stated in the deed which was filed yesterday in the office of the county recorder. This move comes as a result of the visit of David Goodrich, of the Goodrich-Lockhart syndicate, which controls the A. & A. to the Jerome field.

The unpatented claims which were transferred to the A. & A. by the Mowles company include the Hammond and Broncho awarded claims, May, Little Verde, Tomba, Copper Mountain, After Thought, Ruth, Aztec, Gem, Jane and White Hope.

The Mowles company was organized for the purpose of developing James Mowles' extensive property in the district north of Jerome.

Hire a little salesman at The Republican office. A Want Ad. will see more customers than you can.

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Special Correspondence.

JEROME, July 24.—The unwatering of the shaft at the Arkansas & Arizona is progressing rapidly with a minimum of trouble in spite of the fact that the machinery and equipment in use has lain on the ground during the period of idleness since the mine closed down. The force of 16 men is approaching the 900 level, and being no time in halting until the water element which prevents any possibility of real mining or development work until the workings are drained.

Superintendent Galtgan is on the ground. Hammond Mathews, who has remained with the A. & A. during the recent interval of inactivity, has been engaged as master mechanic, and Alex Peterson as mine foreman.

Arkansas & Arizona Copper Co. stockholders will vote at Jerome, Ariz., on Aug. 21 on the proposition of acquiring the adjoining 11 claims of the Mowles Copper Co. To do this capitalization will be increased from 3,000,000 to 6,750,000 shares, per \$1 and 2,000,000 shares of the new stock are to be paid for the Mowles property. Of 1,750,000 shares in the treasury, 1,500,000 are to be optioned at 25c per share to the Goodrich-Lockhart Co. of New York, owners of the Mowles property who are to develop the holdings. A 1,640-foot shaft on the Arkansas Arizona tract lies immediately south of the United Verde holdings 400 feet north of the United Verde main shaft and 5,000 north-west of the Little Daisy shaft of the United Verde Extension.

ELECTRIC PUMPS AT ARKANSAS & ARIZONA

FIVE SMALL MACHINES TO BE REPLACED WITH A PAIR OF BIG ONES

Two big electric pumps are to be installed shortly at the Arkansas & Arizona to replace the five smaller pumps now in operation. These pumps are only one item in a tremendous amount of new equipment being ordered for the A. & A.

The present pumps are lifting 200,000 gallons of water every 24 hours. This is sufficient to keep the workings unwatered but there are various advantages to be gained by replacing them with pumps of heavier capacity. For one thing, it will be much less trouble to take care of two pumps than five.

Superintendent W. H. Galligan has not returned from Cochise county, where he went last week with Engineers Halstead Lindsay and Robert Livermore. The engineers have just completed a detailed examination of the A. & A. and by the time that Superintendent Galligan returns he will probably be in a position to announce the plan of development. For the present the workings are being kept dry, repairs are being made and everything put in shape, as far as possible, for an extensive campaign of operations. It is understood that the Goodrich-Lockhart people, who control the A. & A. and North Verde, have a development fund of \$350,000.

Beyond the cleaning out of two or three of the lower levels, little work is now going forward at the Arkansas & Arizona. These levels are badly caved and one will require as much as 300 feet of retimbering. The necessary repairs are not being made now, however. The muck piles are being shoveled aside in order to make the levels accessible for inspection.

Some two months must pass before the two big pumps ordered for the A. & A. can be delivered. That will give plenty of time for all the repair work necessary before an extensive campaign of development can be undertaken.

The A. & A. now has five small pumps but they are to be pulled out and two new pumps installed. Though the present pumps are quite sufficient to keep the workings dry, they cannot be operated without the hoist, and the hoist will be needed as soon as development work is undertaken.

At the present time only the pumps on the 600, 900 and 1200 levels are in use. They are lifting the water from those levels but that which makes below the 1200 are bailed out. The 1000-gallon bailer makes a round trip once every four minutes, but is operated only half the time.

To Explore New Ground.

The unwatering of the shaft of the Arkansas & Arizona, at Jerome, is about completed. Early in the week the water had been lowered to 1550 feet, the depth of the shaft being 1600 feet. After the unwatering of the lowest level, it is stated that new drilling equipment will be installed and the exploration of ground recently acquired by the company will begin.

NEW PUMPS IN PLACE AND NO MORE TROUBLE FROM WATER EXPECTED

Operations are once more in full swing at the Arkansas & Arizona, following a series of accidents which kept the 1640-foot level flooded for some days. The two new electric pumps, with a capacity of 200 gallons a minute, are in place at the 1100 and 1400 levels. As they are capable of keeping the mine dry it is unlikely that there will be any more trouble on the score of water.

Two shifts are working in the southeast drift from the 1640. According to Superintendent J. H. Galligan, there has been no change in the formation, which is still hard Jasper. The northwest drift on this level is being retimbered and otherwise repaired, and drills will be working in the face shortly.

Several changes, rumored to have resulted from the series of accidents, have recently taken place in the A. & A. force.

Thayer Lindsley, associated with the Goodrich-Lockhart Company, which has recently taken over a large interest in the Arkansas & Arizona, spent the forepart of this week in Jerome. Wednesday he closed up a deal for the Goodrich-Lockhart people for four claims adjoining the North Verde group on the north, purchasing them from the owner, John W. Anderson. The claims are the Gem, June, Broncho and White Hope.

Mr. Lindsley left for New York yesterday morning taking with him a report on the A. & A. and North Verde properties. Before leaving he stated he would return the latter part of May in company with Mr. Goodrich, and that definite plans for the operation of the properties would be formulated by that time.

Special Correspondence.

JEROME, May 30. — C. N. Clark and H. S. Spivey, of Little Rock, Ark., and John F. Boyle, of New York City, are in Jerome to attend the meeting of the Arkansas & Arizona Mining Company at this place Wednesday. At this meeting the proposed merger of the A. & A. and Goodrich-Lockhart companies will take place.

After nearly a year's shut down the Arkansas and Arizona mine is showing distinct signs of life. During the last week a shipment of seven or eight carloads of lumber has been received and will be used to retimber the shaft, in preparation for the installation of machinery and electricity and the work of pumping the water from the mine. The shaft and lower levels are submerged up to the 600 foot level and as the shaft is some 1640 feet in depth, the work of emptying the mine of water will be a considerable task.

When the mine closed down the 4th day of last December, there had been two drifts worked on the eleven and fourteen hundred foot levels, each 1400 feet long, with a 300 foot winze between the drifts. Immediately succeeding the return of president Clark of the A. & A. company to headquarters at Little Rock, Arkansas, after an inspection of the mine the latter part of September, a meeting of the stockholders was held and future operations decided upon. Chas. P. Miller has been placed in charge as mine superintendent. Mr. Miller has had ten years of active mining work in Mexico, having returned to the United States during the outbreak of the revolutionary state in the southern republic. Previous to that he had been engaged in the mining industry in Colorado fifteen years, and in other mining sections of the United States, and is thoroughly conversant with mining operations in all parts of the country. He thinks the A. and A. has a bright future ahead of it and is especially enthusiastic about this corner of Arizona.

The mechanical and electrical part of the work will be under the immediate supervision of Hammond Mathews, mechanical and electrical engineer of Prescott, and of some experience in the mining portion of Yavapai county. Mr. Mathews, accompanied by Mrs. Mathews, made a visit to the mine last week, returning to Prescott until after the fair, when they will return to make their home at the A. and A. camp to commence the

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The work of retimbering the shaft at the Arkansas and Arizona mine has been completed to a depth of 90 feet. The pumps are being repacked preparatory to pumping the water out of the 600 foot level. Two car loads of coal have arrived for use at the mine and are to be unloaded soon when the work of pumping out the water will be commenced. After unwatering development work will be commenced on this level, as those who have the work in charge believe that good ore may be developed on this level. As soon as possible the lower levels will be pumped out and deeper development undertaken.

Mine superintendent Miller has all confidence in the ultimate success of the resumption of the A. and A. and is pushing things along as fast as possible. President Clark, of Little Rock is expected on the ground before the first of the year, on an inspection trip and by that time something definite will likely have taken place in regard to the prospects of the mine and the future development of it. The directors, who are Little Rock, Arkansas, people, have all faith in the property and its future and are sparing no pains to place the mine and machinery in first-class shape for a permanent working basis.

Hammond Mathews and family arrived from Prescott to reside at the A. & A. camp, where Mr. Mathews has charge of the mechanical and electrical work of the mine.

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Pumps will be put in shape for installment in the near future.

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While passing through the city yesterday from a week of inspection of the Arkansas & Arizona Mining Company holdings at Jerome, L. E. Tucker, president, expressed himself as better pleased with recent determinations than at any time in the history of the proposition.

Development has reached that stage as to be beyond the pale of speculation for the future, and a producer is now incontrovertibly established.

In the history of this property Mr. Tucker has taken a leading part in a financial way, and through his years of being at the helm and materially promoting its welfare, the climax of the long struggle is to be rewarded with all of the benefits that seem to be at hand. Mr. Tucker states that the installing of the big hoist is going ahead, and with it in commission, development will be prosecuted under better advantage than heretofore. He is returning to Little Rock, via the Coast, and in the near future will again visit the camp.

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The boarding house will, a little later, be reopened and this mine, which at one time kept a force of 100 men busy, will in a short time become another active camp again, though nothing can be done before November 1st and after that the water problem will have to be disposed of before actual development work can be resumed.

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Goodrich and Lindsay left Tuesday for the east. The engineer will return in about six weeks.

A. & A. DEVELOPMENT UNDER WAY IN WEEK

SHAFT PRACTICALLY FREE OF WATER AND WORKINGS CAN BE EXPLORED

Actual development work will be under way at the Arkansas & Arizona within a week or ten days.

The pumps have lowered the water down to the 1600-foot level and the workings on the 1600 can be explored within a day or two, unless there are some bad caveins. It will not be long before the shaft is dry clear down to the station at 1640 feet. That is ordinarily spoken of as the shaft's greatest depth, though there is a twelve-foot sump below that point.

Owing to a cavein several hundred feet from the shaft, the 1200-foot level has not been thoroughly explored. It is not believed, however, that the management has any idea of developing from the 1200 and probably no steps will be taken soon to clear away the debris. The development, it is thought, will be from the 1600. There is a widespread belief locally that a crosscut will be run toward the North Verde ground.

Though the management probably has some idea regarding the direction that development work will take, nothing definite will be given out until the arrival of Halstead Lindsay, engineer for the Goodrich-Lockhart syndicate, who is due early next week.

The A. and A. is handily located at a short distance from Jerome and the road to the mine is a gradual decline leading for the most part over the United Verde mine and into a portion of the district indicated by a number of good mining prospects of which the A. and A. has received the greatest development.

C. W. Clark, President of the Arkansas and Arizona Copper Company arrived Saturday evening from Little Rock, Arkansas on business in connection with the property of the company here. Mr. Clark remained in Jerome until Tuesday morning, at which time financial arrangements had been concluded, with New York financiers providing for the development of the property.

President Clark stated before leaving, that work would be resumed immediately and that in 30 to 60 days the mine would be in operation with a good sized force of men at the works. In the meantime Hammond Matthews has been placed in charge at the mine until the necessary arrangements for starting up the work can be completed. Mr. Matthews was formerly electrical engineer at the A. and A. at the time some preparatory work was done in the fall.

From other sources it was gathered that the people who have recently become financially interested are the well known firm of Goodrich-Lockhart of New York, who last fall closed a deal for the purchase of the North Verde claims from James S. Moyles. The North Verde claims lie directly adjacent to the A. and A. property on the east, and were purchased by this company outright, the final settlement having been made in October. It is proposed to operate this group of claims from the A. and A. plant as a central point. The A. and A. has undergone considerable development in years past and quite a sum of money has been expended, resulting in a good sized equipment, which, with some additions will be used in the operations to be resumed in the near future. The sum to

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SEC. SPIVEY MAKES EXTENDED INSPECTION AND FEEL ENCOURAGED OVER CONDITIONS.

H. S. Spivey, of Little Rock, Ark., secretary of the A. & A. Mining Company, has concluded an extended inspection of this copper property near Jerome, and while in the city yesterday, en route home, gave out the important information that resumption is to take place in a short time. This conclusion is due to noteworthy determination recently made in exploration of the United Verde Extension holdings, which are situated within 3000 feet of the main workings of the A. & A. and also in view of the close proximity of the United Verde.

What line of development will be decided upon for the A. & A. is not known, but it is quite probable, according to miners conversant with the geology of that belt, that sinking from the 1,400-foot level, with a system of cross-cutting east to intersect supposed large ore bodies that have been developed on the Little Daisy, will be carried out. The intention to revive the A. & A. is quite another important movement in that field, and is engrossing considerable attention among mining men.

A side from Mr. Spivey's business trip to Jerome, he had the pleasure yesterday of meeting for the first time in 50 years, his old-time mate, in Joe H. Drew. The boys together at Dardanelles until 1865, when they drifted apart. Spivey returned to the mine of the day.

Arkansas-Arizona has entered into a contract for 250 h. p. of electricity and the shaft at the 1700 level is being retimbered by Manager Miller, preparatory to extensive explorations which, it is expected, will open up extensive valuable ore bodies.

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A. and A. Will Resume Work.

Col. H. S. Spivey, secretary and treasurer of the Arkansas and Arizona Mining Company, whose extensive properties adjoin those of the United Verde and Little Daisy in Jerome, was a visitor in Prescott during this week, after having inspected the company's property. Col. Spivey states that the A. and A. is being re-financed, and that is the intention of the company to resume work in the course of a few weeks. The workings of the company are among the deepest in the county, the lowest level being at a depth of 1648 feet, and the hoisting equipment is one of the best in the state. The outlook for the property is most encouraging, as the company has assurance of the financial aid of one of the ablest capitalists and financiers of Arkansas.

Indications point to an active resumption of development work soon on the A. & A. property. Decision on the part of the management, definitely outlining proposed work, is expected within the week.

Everything is in readiness to start up almost at a moment's notice, machinery and pumps having been thoroughly overhauled and placed in order.

John F. Boyle and H. S. Spivey, stockholders of the company, prominent business men of Little Rock, Ark., arrived in the city, Monday, on a visit of inspection of the property. Their report will materially influence future operations on the A. & A.

It is presumed determinations made by the Little Daisy on the 1,200 and 1,400 levels, which workings are being driven northward to the holdings of the A. & A., will induce a system of cross-cutting to reach that section where the Little Daisy has made such a showing.

Several of the officials of Arkansas & Arizona mine have been inspecting the A. & A. property with the idea of resuming development work upon this property. Their shaft is already down to about 1650 feet, and it is the common opinion among the people of Jerome that with the proper development of these lower workings that some good ore bodies will be encountered. We hope that it will not be long before we see the smoke coming over the hill from the A. & A. stack.

Three large boilers are being installed at the camp of the Arkansas and Arizona Copper Mining company near Jerome. The boilers will supply the hoist with steam. These boilers weigh 29,000 pounds each.

The A. & A. Company is preparing to unwater their mine preparatory to renewing the development at their lower levels. It is hoped that they will encounter large rich ore deposits to enable them to make a large producer, as they have always worked earnestly and sincerely and are deserving of a great deal.

The retimbering of the old shaft of the Arkansas and Arizona has progressed a distance of 39 feet from the top. The work of retimbering will be continued until the 100 foot level is reached, and by that time it is expected the pumps will be in condition to commence the work of unwatering. New motors and one new pump will be installed and all arrangements have been made with the power company to provide power sufficient for a full operation as soon as the machinery is in place. The machine shop and saw mill are now supplied with motor juice, and the equipment is being overhauled preparatory to putting it into use.

Manager Chas. P. Miller says that unwatering will be pushed as fast as possible and that actual mining operations will be commenced at the earliest possible moment. Every indication at the mine points to a bona fide resumption of activities on a permanent basis. All old machinery is being replaced by up-to-date models which will ma-

ARKANSAS & ARIZONA (Jerome)—Company is grading for a standard-gage railroad down cañon to mouth of 1000-level tunnel of United Verde company, where there is a standard-gage road completed to new smelting plant at Clarkdale.

ARKANSAS & ARIZONA (Jerome)—Company has decided to sink to 2000-ft. level. Shaft is now more than 1500 ft. deep.

Indications are good for the resumption of development work on the property of the Arkansas and Arizona Copper Company at Jerome. A recent meeting of the stockholders held at Little Rock, Arkansas authorized a bond issue and made arrangements for the payment of outstanding indebtedness and the resumption of work. The details of the meeting and plans of the company are contained in an article in the Arkansas Gazette, published at Little Rock, which reads as follows:

To Issue Bonds.

A \$150,000 bond issue to raise funds to resume development of the Arkansas and Arizona Copper Company's property at Jerome, Arizona, was authorized by the stockholders at a special meeting yesterday at the Hotel Marion. A resolution was passed authorizing the auditor, W. P. Weld, to call in all outstanding certificates of stock for registration.

The meeting was called by C. W. Clark, acting president, and a large number of stockholders were present including J. E. Leeper of Jerome, Arizona, secretary; W. M. Kavanaugh of Little Rock, treasurer, and Auditor Weld.

Operation of the mine was discontinued in November and a meeting was called by the late Wm. R. Tucker for November 18. Mr. Tucker met his death by accident before this date, but the meeting was held, although no action was taken for the resumption of operations.

The bonds are to be sold to stockholders only, and at par. The money thus obtained will be used in paying the company's indebtedness, which is said to be about \$26,000, and the remainder will be used for development of the mine.

The company's property adjoins that of the United Verde mine near Jerome, Arizona, one of the largest copper mines in the world. Recently an extension mine of this company called the Little Daisy, has developed into another big producing mine and this fact has encouraged all connected with the Arkansas and Arizona company.

Good Producer.

Secretary Leeper, who has just come from Jerome, told the stockholders that the vein of copper struck by the Little Daisy also crossed the property of the Arkansas and Arizona company and that prospects for a big producer are brighter than ever.

The equipment is the most modern in construction and is capable of removing 2,000 tons of ore daily, it is said.

In the resolutions adopted it was provided that when the operation of

A representative of THE NEWS visited the Arkansas & Arizona mine one day this week and found it a busy place. Sinking in the main shaft is now going on and it is now down 70 feet below the 1400 foot level. According to Mr. Leeper this work will be pushed as rapidly as possible. Grading on the new track that will connect the mine with the smelter at Clarkdale is now nearing completion. This track is standard gauge and in keeping with the rest of the workings will be a first-class piece of work. With the completion of this track and the new smelter at Clarkdale in the early summer, the A. & A. will probably start shipping ore. While a good grade of ore has been found on the 1400 foot level it is the intention of the A. & A. people to sink to a greater depth. They are making about 100 feet per month through a hard formation. About fifty men are now employed. Altogether it is a very bright outlook at the A. & A.

Sinking of the main shaft of the Arkansas and Arizona continues in silicious rock carrying some copper sulphides. Work also continues upon the grade of the railroad spur which will connect the mine with the railroad at the United Verde tunnel. In the Little Daisy, a strong stream of water was encountered in the 1200-foot level which filled that level nearly full. The flow was plugged, however, and the pumps set to work in that level, which it is believed will be dry again in a few days. Another pump which is now on the way to the mine will be installed at an early date. Driving of the 800-foot level is also in progress. On the Main claim of the Hull properties, a six-foot vein of high grade oxide ore was recently struck in a short tunnel. In the Cleopatra, of the same group, the 400-foot drift is being extended, and the drift upon the Mining Link claim has reached a length of 800 feet, the breast being in quartz carrying copper sulphides.

Complying with the laws of the United States pertaining to annual assessment work on mines, an affidavit showing \$100,000 worth of work performed and improvements made on the Arkansas & Arizona Copper Company's mines in the Verde district has been filed with the county recorder by C. R. Hopson, of Jerome. The mines owned by the company in that section include the following: Copperopolis, Tailsman, Tom Sharkey 2, Shamrock 2, Barnett, Green, Golden Rose, Robert Emmett 2, John L. 2, Kress, Lloyd, Lilly, Maverick 2, and the Maid of Erin 2.

THE ARKANSAS-ARIZONA

The Arkansas-Arizona company is receiving timbers preparatory to retimbering part of its 1,700 foot shaft. Manager Miller, who has a reputation for being able to follow up the leads and who is a well known geologist, has been making an exhaustive study of the conditions of the previous developments and has convinced the interested parties that he can open up some ore bodies which it is believed they were close to before the mine was shut down last winter. A contract has been made with the Arizona Power company for about 250 hp. of electricity.

There has been a great deal of development work done on this property, it being among the best equipped properties in the state. It is confidently believed that some valuable ore lenses will be opened up among the many leads which have been previously encountered, but scarcely developed. The A. & A. is situated about one and a half miles north of the main works of the United Verde and about a mile northwest of the United Verde Extension mine. Sufficient money has been arranged for to carry on extensive explorations on the several promising leads carrying a low grade chalcopyrite.

Arkansas & Arizona—The diamond drill recently purchased is being installed in the 600-ft. level, and 450 ft. from the working shaft.

Jerome News: At the Arkansas and Arizona mine the work of preparing to receive the new hoist is about completed, and, as it is now on the way here, it will not be long before it is working. Development below ground is moving along with good results. Some high grade ore continues to come from the south drift.

To Connect Mine with Railroad.

It is announced that it is the intention of the Arkansas and Arizona Copper Company, whose properties are near Jerome, to connect the main working shaft with the Verde Tunnel and Smelter Railroad, connection to be made at a point near the 1,000-foot tunnel of the United Verde mines. This will give the A. & A. an outlet to the Santa Fe system. While the airline distance between the two points to be connected is a little less than one mile, it will be necessary to make the road over two miles in length, in order to overcome some 500 feet difference in elevation. Work of raising from the 1400-foot level to the shaft is in progress, and after connection has been made the shaft will be enlarged to three compartments from surface down.

ARKANSAS & ARIZONA (Jerome)—A new hoist is being installed at the main shaft. Drifting is in progress on the 1300- and 1400-ft. levels and a raise is being made from the 1400-ft. level to the shaft. When this is completed the shaft will be sunk to a depth of 1800 feet.

Mohave County

ARKANSAS & ARIZONA (Jerome)—Three boilers weighing 20,000 lb. each are being installed on the property of this company. The boilers are part of the hoisting equipment.

ARKANSAS & ARIZONA (Jerome)—Extensive developments are being made. A large installation of hoisting machinery has been completed for the further sinking of the shaft which is down now to about 1400 ft. This is said to be the largest hoisting plant in the county. This shaft is to be sunk to a depth of 1800 or 2000 ft. A new store building has been completed near the mine which is well stocked.

Saturday, October 3, 1914

MINING NEWS.

A Collection of Short Newsy Items From Among the Mines of Arizona.

Jerome News: "The A. & A. mine continues with a large force of men to drive the tunnel, and are making excellent progress. Traces of sulphides are being found more frequently than before. The wonders of the Little Daisy increase daily. Beautiful specimens of native copper have been taken out of the mine, and at present a high-grade sulphide is being found. The Daisy has graduated from a prospective mine to one of reality."

Jerome News: The A. & A. company are still continuing the drift to the west on the 160-foot level. The last 10 feet was hard enough to stand without spiling, but they are still continuing to timber the drift. Every round shows stringers of pink calcite and quartz carrying some chalcopyrite. In fact there is good looking iron stained schist, and it is more in place, and the drift is passing out of the brecciated zone on the foot-wall side of the north and south drift. They intend to continue the cross-cutting on this level far enough to cut some good-looking country, which has been exposed on the 1200 and 1400-foot levels west of the winze. The company is still working a full force of men, and every 24 hours shows substantial advancement in the crosscut.

ARKANSAS & ARIZONA COPPER CO.

The SHAMROCK Claim is situated in the Verde Mining District at Jerome. Only development work is being done at present. The method of working is through the shaft. 59 men are employed. General conditions are good with the exception of poor ventilation.

A Humphrey revolving-hammer type mill, built by the Arizona Mine Supply Co., is being installed at the Hopper mine. Good lead and zinc ore is being opened in the Ruth mine, six miles south of Prescott. The Arkansas & Arizona Copper Co., whose property is near Jerome, will connect the main shaft with the Verde Tunnel & Smelter railroad. The shaft is being 'raised' from the 1400-ft. level. The Monte Cristo, Nelson, Copper Queen, Bluebell, and Swastika mines are all developing in a promising way.

**FACE OF EAST DRIFT ON 1640
MAY BE NEAR BIG
ORE BODY.**

Indications in the east drift from the 1640-foot level of the Arkansas & Arizona are getting better and better. Thursday a narrow streak of copper stain was encountered. Today the streak has widened out to more than a foot.

Practically all the miners and shift bosses at the A. & A. believe that an ore body is near and are buying all the stock they can pay for.

There was another flurry in A. & A. stock last Sunday night and Monday. The word got around that the indications were rapidly getting better and that a strike might be made at any minute. As a result sales were made as high as 90 cents. Thursday a report was circulated that ore had been struck but its only foundation was the streak of stain.

ARKANSAS & ARIZONA.

Jerome, Ariz.—Three shifts instead of two are now working on the 1,640-foot level of the Arkansas & Arizona. The force employed at that property now totals 80 men.

Until a few days ago it was impossible to work three shifts on the 1,640 because of smoke. Now, however, the work of installing a fifteen-inch air line in the shaft and twelve-inch lines in all drifts and crosscuts has been completed. Ventilation is perfect.

The east and west crosscuts from the 1,640 are being driven forward with amazing speed. Several days ago the east crosscut passed through the quartz porphyry encountered last week. The body of porphyry was 30 feet wide.

Conditions in the west crosscut are unchanged. Stringers of chalcopryite are frequently cut but no big body has been penetrated.

ARKANSAS & ARIZONA

The Jerome News reports under date of January 15:

"Work will be resumed at the Arkansas and Arizona six months after the war ends, or sooner if a big strike is made in the district.

"All the old directors of the A. & A. were re-elected. H. P. Teare, secretary, explained to the stockholders that the holders of about \$65,000 worth of the \$69,000 worth of bonds which fell due January 1 had extended them to 1921. The Goodrich-Lockhart syndicate, which holds an option on something over fifty per cent of the company's stock, has arranged to take up the bonds that were not extended and to pay the interest on those that were."

MAY DIAMOND DRILL ARKANSAS & ARIZONA

Diamond drilling may be resorted to in the development of the Arkansas & Arizona.

This became known when Thayer and Halstead Lindsley, engineers for the Goodrich-Lockhart syndicate, arrived at Jerome to inspect the property.

The Lindsleys found the east crosscut from the 1640-foot level of the A. & A. in porphyry of exactly the same character as that in which the Jerome-Verde struck ore. This week a great deal of iron sulphide has been coming in.

It is possible that this is the same porphyry as that in which the Jerome-Verde strike was made. The present face of the crosscut is not so very far from Jerome-Verde ground.

Work is being rushed in the east crosscut, for any round of shots may disclose the ore. But the use of a diamond drill in hastening the exploration of that great dike of porphyry is being considered.

DIAMOND DRILL MAY BE USED AT A. & A.

TO HASTEN EXPLORATION OF PORPHYRY OPENED IN EAST CROSSCUT

Diamond drilling may be resorted to in the development of the Arkansas & Arizona.

This became known when Thayer and Halstead Lindsley, engineers for the Goodrich-Lockhart syndicate, arrived to inspect the property. David M. Goodrich, head of the syndicate, was expected but did not come.

The Lindsleys found the east crosscut from the 1640-foot level of the A. & A. in porphyry of exactly the same character as that in which the Jerome Verde struck ore. This week a great deal of iron sulphide has been coming in.

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HOT ON TRAIL OF COPPER AT A. & A.

WHITE IRON IN EAST DRIFT RE- GARDED AS GOOD INDICA- TION OF ORE

Indications for the early discovery of ore at the Arkansas & Arizona are said to be far better than they ever were before. The miners and other employes are on the qui vive, expecting that ore may be entered with any round of shots in the drift being run southeast from the east crosscut on the 1640-foot level. Most of the miners have increased their holdings of stock in the last week.

The face of the drift mentioned is all in white iron. It is so hard that it "burns up" the drills and progress is made with great difficulty.

White iron itself does not necessarily mean copper, but if the drift hits a place where copper-bearing solutions have struck that formation there is bound to be a big body of high-grade ore.

All the work being done at the A. & A. now is on the 1640-foot level. The drift from the east crosscut is being extended. A crosscut is being run west and a drift is being driven south along the contact. In spite of the difficult drilling in the east drift, 40 feet of progress is made every 24 hours.

Due to the splendid showing in the east drift, Arkansas & Arizona stock has materially strengthened this week. A week ago it was going begging at 30 cents, due to the fact that no particularly encouraging news had come from the A. & A. for some time, but today there is none to be had in Jerome at 47.

Comparing the white iron in the A. & A. east drift with that which was cut in the Jerome Verde shaft just before black iron was entered, is a popular outdoor and indoor sport. There is no apparent difference.

BURNS BACK ON OLD STAMPING GROUNDS

FIRST SUPERINTENDENT OF A. & A. WISHES HE HAD STAYED

Another old-timer who once decided that he could do better elsewhere than Jerome has perceived his error and come back determined to stick.

This time it is Frank Burns, first superintendent of the Arkansas & Arizona. After an absence of some seven years, Mr. Burns returned to Jerome last week and ever since he has been renewing old friendships. He intends to look around and form a connection with one of the new and aggressive companies.

Development of the A. & A. was undertaken in 1906, with Mr. Burns as superintendent. He remained with that company until the first shutdown, in 1909. Then he left the district, going first to Mexico and later to Nevada. He now admits that he is sorry he did not stay right here.

"The A. & A., Verde Grande and Haynes, now the Jerome Victor Extension, had the best plants of any prospects in the district," reminisced Mr. Burns. "The Pittsburg-Jerome, Jerome Verde, Hull and Little Daisy, now the United Verde Extension, were also active. Jim Newlin was doing a little work on the North Verde, but there were no other active prospects that I can remember. The Copper Chief was idle and we had never heard of the Calumet & Jerome, Dundee, Jerome Daisy, Gadsden, Green Monster, Jerome Superior, or a number of other companies that are now spending immense sums in the intelligent development of their property.

"Some of the companies now active are going to make a big strike one of these days. Well, I just want to be here when that strike is made."

DIAMOND DRILLS START AT A. & A. WITHIN FEW DAYS

(From Thursday's Daily)

Diamond drilling will be under way at the Arkansas & Arizona in a few days. Today N. Bertrand, the expert drill man of the Warren district, is superintending the lowering of one of his 700-foot machines down the A. & A. shaft. It is to be set up at once in the face of the south drift, approximately 1275 feet from the shaft. From that point a flat hole will be started eastward.

Future drilling operations depend largely upon what is found in that hole. Other holes may be drilled from that drift. Later a hole will be drilled eastward from the end of the east crosscut.

In the meantime work will be continued in two sub-drifts started on one of the particularly promising iron sulphide stringers cut in the south drift.

BIG PUMP BREAKS DOWN AT A. & A.

DRIFTS ON 1640-FOOT LEVEL IN PORPHYRY AND QUARTZ PORPHYRY

Water is delaying operations at the Arkansas & Arizona, and there is no prospect of relief before tomorrow.

The crank shaft of the electric pump on the 600-foot level broke the latter part of last week. The air pump on that level was brought into service. When both air and steam were shot into it, this pump managed to keep the workings fairly dry till Tuesday night. Then it got so hot that it was shut down and not very much work has been done since.

A new crank shaft has been shipped from New York and may be in tonight. At least a day will be required to install it. The east drift on the 1640-foot level is in porphyry, while the drift south along the same contact is in some splendid looking quartz-porphyry.

A. & A. GOES ON CURB NEXT WEEK

BACKED BY STRONG COMBINATION
AND PRICE EXPECTED
TO RAISE

Advices from Little Rock are that Arkansas & Arizona is to be listed on the New York curb next week, with a strong combination behind it. Whether the Goodrich-Lockhart syndicate, which holds an option on 51 percent of the shares, is to back the stock on the curb is not known, but it is thought likely that the matter has been placed entirely in the hands of brokerage houses.

In all probability there will be a sharp advance in the price of A. & A. as soon as it is listed and active trading begins. For some time it has been selling between 40 and 50 cents.

It has been supposed locally that A. & A. was listed two or three months ago, but that was not the case. Some curb brokers merely began to trade in the stock, but no strong and active market was created.

TO RESUME WORK ON A. & A. AFTER WAR

(From Thursday's Daily)

Work will be resumed at the Arkansas & Arizona six months after the war ends, or sooner if a big strike is made in the district.

This is the news that James F. Mowles has brought home from Phoenix, where he attended the annual stockholders' meetings of the A. & A. and Mowles Copper companies.

All the old directors of the A. & A. were re-elected. H. P. Teare, secretary, explained to the stockholders that the holders of about \$65,000 worth of the \$69,000 worth of bonds which fell due January 1 had extended them to 1921. The Goodrich-Lockhart syndicate, which holds an option on something over fifty per cent of the company's stock, has arranged to take up the bonds that were not extended and to pay the interest on those that were.

Teare assured Mowles that the Goodrich-Lockhart people intend to resume development of the A. & A. within six months after peace is arranged, but added that any big boom in the district might mean an immediate resumption.

ARKANSAS & ARIZONA

Operations were suspended on this property on July 23d, when Superintendent W. H. Gilligan, acting under orders received from the Goodrich-Lockhart syndicate, "pulled the pumps" after putting things in shape for a long period of inactivity. The Goodrich-Lockhart people retain their option on a majority of the stock, and it is possible that they may make another attempt to open the property later.

The unwatering of the mine was begun by the Goodrich-Lockhart syndicate just a year ago. Since that time almost exactly a quarter of a million dollars has been spent. The work on the 1200 and 1640-foot levels totaled 4,555 feet and cost \$120,000. Just a little under \$30,000 was spent for machinery. Rehabilitation of the old plant, unwatering, and other expenses brought the total up to \$250,000.

ARKANSAS & ARIZONA SHUTS DOWN ITS MINE "FOR PERIOD OF WAR" OR UNTIL LABOR MATTERS BETTER

Operations were today suspended at the Arkansas & Arizona "for the period of the war and until labor conditions improve."

Superintendent W. H. Galligan this morning received from the Goodrich-Lockhart syndicate, the directors of which met yesterday in New York, a telegram directing him to pull the pumps and put everything in shape for a long period of inactivity. The Goodrich-Lockhart people retain their option on a majority of the stock and it is possible that they will make another attempt after the war to open a mine at the A. & A.

Since the end of the first strike, no work has been done at the A. & A. except diamond drilling. A hole a little under 100 feet in length was drilled eastward from the south drift on the 1640-foot level. Then Contractor N. Bertrand, acting under the direction of Superintendent Galligan, moved his rig to the face of the east crosscut. This morning a hole had been drilled 398 feet, 70 feet in black diorite and the remainder in quartz-porphry.

Engineer Halstead Lindsley, who spent the first half of the week at

the A. & A., wired the Goodrich-Lockhart syndicate that they could not afford to go to the expense of keeping the workings unwatered merely for drilling operations.

Before meeting yesterday to decide on their future course, the Goodrich-Lockhart directors wired Superintendent Galligan asking about the labor situation. He replied that while the Verde district is quiet the situation is extremely unsatisfactory in other camps of the state.

The deal whereby the Goodrich-Lockhart syndicate secured an option on 51 percent of the stock in the Arkansas & Arizona Copper company was consummated early last summer. Just a year ago the unwatering of the workings was undertaken. Since that time almost exactly a quarter of a million dollars has been spent. The work on the 1200 and 1640-foot levels totaled 4,555 feet and cost \$120,000. Just a little under \$30,000 was spent for machinery. Rehabilitation of the old plant, unwatering, and other expenses brought the total up to \$250,000.

Superintendent Galligan announced for the first time today that he

ARKANSAS & ARIZONA, Jerome, Ariz.—The recent abatement of the smoke nuisance in the workings of the Arkansas & Arizona company at Jerome permits the working of three shifts of miners on the 1640-foot level. Heretofore only two shifts were employed there. A 15-inch air line in the shaft and 12-inch lines in all the drifts and crosscuts have perfected ventilation and facilitated mining operations. As a result the east and west crosscut on the 1640-foot level are being advanced very rapidly toward the points where pay copper ore bodies are thought to prevail. The east cut has just emerged from a body of quartz porphyry 30 feet wide and entered a zone that shows copper indications. In the west cut stringers of chalcopryite are frequently encountered.

Arkansas & Arizona Copper Co., (Jerome)—The management has encountered some difficulties recently. The crank shaft of the electric pump on the 600 level broke the latter part of last week, necessitating the service of the air pump until it got so hot that it was shut down. A new crank shaft should arrive today. The east drift on the 640-level is in porphyry while the south drift, along the same contact, is in fine looking quartz-porphry.

MAY CHANGE PLAN OF WORK AT A. & A.

LINDSLEY AND GOODRICH COM-
ING TO OUTLINE FUTURE
DEVELOPMENT

Some change in the plan of developing the Arkansas & Arizona may be adopted after April 25, when David M. Goodrich and Halstead Lindsley arrive to look over that property. Goodrich is head of the Goodrich-Lockhart syndicate, which controls 51 percent of the A. & A. stock, and Lindsley is the syndicate's engineer.

Work was stopped several days ago in the west crosscut, which was near the property line. Operations now are being concentrated on a drift along the contact from the west crosscut, and in the east crosscut.

The east crosscut is looking more promising than ever. It is all in porphyry like that in which the Jerome Verde glance was struck. A few days ago it cut through a stringer of iron sulphide, green with copper stain on one side. It is evident that a strong copper solution passed along this stringer at one time, but it is not being followed.

Lindsley has indicated in telegrams that the plan of development may be changed. It is possible that he contemplates having the shaft sunk to greater depth, or he may have diamond drilling in mind. There is a strong belief among local mining men that greater depth is what is needed at the A. & A.

The crank shaft of the electric pump on the 600-foot level was replaced this week, but Thursday the motor which drives it was burned out. Today, however, the pump is operating normally. Water has hampered operations more or less in the three weeks that have elapsed since the old crank shaft cracked.

ENGINEER TO INSPECT A. & A. HOLDINGS

The management of the Arkansas and Arizona mine, which at present is waiting an adjustment of its affairs preparatory to starting up again, expects an engineer who will arrive about the 4th of March to inspect the property in the interests of some Los Angeles capitalists who may become interested.

The A. and A. has at one time been among the most active properties of the district and it is a generally understood fact that the present inactive condition of the property is due to the lack of sufficient financial backing; when this is secured as it will be sooner or later, this well known property will again join the list of those now undergoing active development in this district.

RESUMPTION TO FOLLOW CLOSE OF A. AND A. DEAL

The Arkansas and Arizona has been the subject of more or less speculation concerning the final disposition of the future of this well known property during the past winter. It was reported some time ago that the Goodrich-Lockhart company of New York were about to enter as a factor in the operation of the property, and the matter has finally been settled at a meeting in Little Rock, Arkansas, the middle of this month. A report issued to the shareholders of the A. and A. is explanatory of the agreement made at this conference between the Goodrich-Lockhart people and the officials and directors of the A. and A. Statements contained in the report are corroborative of rumors recently circulated here and generally given credence that the arrival in Jerome of President C. W. Clark of the A. and A., and David M. Goodrich in the near future would shortly be followed by actual resumption of work at the property.

Something like \$800,000 is said to have been expended upon the plant and development of the A. and A., and President Clark stated upon a former visit here that the shaft had been driven through an ore body of some value. Local people and all interested in the district will rejoice to see the A. and A. again in operation; the merger of the North Verde group with that of the A. and A. is also a desirable feature of the arrangement and tends to strengthen the prospects of the resulting combination.

Little Rock, Ark., Apr. 20, 1916.
To Shareholders, Arkansas & Arizona Copper Company:

We beg to advise that at a conference held in this city on the 12th, 13th and 14th instant, as between this company and Mr. David M. Goodrich of the Goodrich-Lockhart company of New York City, which concern controls the ownership of the Mowles Copper company, a corporation owning about fifteen mining claims immediately adjoining the sixteen claims owned by our company, it was agreed as between us that the Goodrich-Lockhart company would withdraw the proposition they made our company about six weeks ago relative to their taking a three-year option on 51 per cent of the capital stock of the Arkansas & Arizona Copper company, and in its place submit a proposition which cannot but be regarded as being much more favorable to our shareholders, and which means almost immediate development of both their property and ours. The proposition as submitted and agreed upon, and adopted by your board of directors, to be voted upon at a shareholders' meeting to be held on the 31st day of May, 1916, is summarized as follows:

The capital stock of the Arkansas & Arizona Copper company is to be increased from \$3,000,000 to \$6,750,000, shares being of a par value of \$1.00 each. Our shareholders are to retain their three million shares, and two million shares are to be voted to the Goodrich-Lockhart company in payment for the property of the Mowles Copper company. This will leave in the treasury of the Arkansas & Arizona Copper company one million seven hundred and fifty thousand shares. An option for a term of one year is given the Goodrich-Lockhart company on one million five hundred thousand shares at a price of 25 cents per share. Under the terms of the option the Goodrich-Lockhart company will begin the unwatering and work of development of our mine within thirty days after the ratification by our shareholders of the proposition submitted, and thereafter prosecute in a miner-like way the further development of the mine. The Goodrich-Lockhart company are to pay for and take up this optioned stock as expenditure is made.

Property We Acquire.

As before referred to, the Arkansas & Arizona Copper company acquires about fifteen claims owned by the Mowles Copper company, which we think are a most valuable

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The management of the Arkansas and Arizona mine, which at present is waiting an adjustment of its affairs preparatory to starting up again, expects an engineer who will arrive about the 4th of March to inspect the property in the interests of some Los Angeles capitalists who may become interested.

The A. and A. has at one time been among the most active properties of the district and it is a generally understood fact that the present inactive condition of the property is due to the lack of sufficient financial backing; when this is secured as it will be sooner or later, this well known property will again join the list of those now undergoing active development in this district.

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Property We Acquire.

As before referred to, the Arkansas & Arizona Copper company acquires about fifteen claims owned by the Mowles Copper company, which we think are a most valuable acquisition, because these claims immediately adjoin and are within 380 feet of our shaft, and therefore both sets of claims can be worked through connection with this shaft. The advice of their and our engineers is that the claims of each company that lie immediately adjacent to one another are the most valuable.

able, and therefore it would seem the part of wisdom that both properties be worked under a scheme of joint ownership.

Goodrich-Lockhart Company.

Our investigation makes us certain that the Goodrich-Lockhart company are of the highest moral and financial worth; that they employ the best engineering staff, are successful operators, and that they themselves possess all of the qualities and experience necessary to successful mining, both from a practical as well as a scientific point of view.

In Conclusion.

We feel sure that you will agree with us that the plan worked out, if ratified by you, will work to the great advantage of all concerned, and we ask, therefore, that you sign and by the next mail return us the enclosed proxy, to be voted at shareholders' meeting to be held at Jerome, Arizona, May 31, 1916.

In great earnestness we say to you that, unless the proposition we now have in hand is ratified, our

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ago relative to their taking a three-year option on 51 per cent of the capital stock of the Arkansas & Arizona Copper company, and in its mine. The Goodrich-Lockhart company are to pay for and take up this optioned stock as expenditure is made.

Property We Acquire.

As before referred to, the Arkansas & Arizona Copper company acquires about fifteen claims owned by the Mowles Copper company, which we think are a most valuable acquisition, because these claims immediately adjoin and are within 380 feet of our shaft, and therefore both sets of claims can be worked through connection with this shaft. The advice of their and our engineers is that the claims of each company that lie immediately adjacent to one another are the most valuable,

and therefore it would seem the part of wisdom that both properties be worked under a scheme of joint ownership.

Goodrich-Lockhart Company.

Our investigation makes us certain that the Goodrich-Lockhart company are of the highest moral and financial worth; that they employ the best engineering skill, are successful operators, and that they themselves possess all of the qualities and experience necessary to successful mining, both from a practical as well as a scientific point of view.

In Conclusion.

We feel sure that you will agree with us that the plan worked out, if ratified by you, will work to the great advantage of all concerned, and we ask, therefore, that you sign and by the next mail return us the enclosed proxy, to be voted at shareholders' meeting to be held at Jerome, Arizona, May 31, 1916.

In great earnestness we say to you that, unless the proposition we now have in hand is ratified, our company will have lost an opportunity that it may never have again, and if not, the Goodrich-Lockhart company will go ahead with the development of their own property and let us shift for ourselves, which could not do otherwise than result in further delay in bringing about the development of our mine.

It is absolutely necessary to have the proxies in hand promptly, otherwise we can not act. We have chosen a committee to receive and vote these proxies as under the law the meeting must be held in Jerome, Arizona.

Very truly yours,
ARKANSAS & ARIZONA COPPER
COMPANY.

C. W. CLARK, President.

IS BOOSTER FOR A BETTER PRICE FOR A. & A. MINE STOCK

SOUTHERN BROKER SAYS LOCAL
MINE SHARES ARE WORTH
HIGHER FIGURE.

(From Thursday's Daily)

With all his plans laid for an extensive campaign to put Arkansas & Arizona stock up to the price he thinks it is worth, J. M. Townes, leading broker of Little Rock, Arkansas, left today for Denver. He will go directly from Denver to Little Rock.

"Arkansas & Arizona shares are worth at least 50 or 75 cents," declared Mr. Townes this morning. "They are not selling in their proper class because the issue has not been properly pushed.

"The A. & A. is under development by the Goodrich-Lockhart syndicate, which has unlimited funds. There are no financial problems connected with the work, and if Superintendent Galligan does not make a mine I will be very much surprised. I was all through the workings yesterday and was amazed at the progress he has made.

"I have seen all the local brokers and they are willing to co-operate with me in putting A. & A. before the public. The investing public is going to hear a great deal more about the Arkansas & Arizona from this time on."

J. M. Townes

Name of company Arkansas & Arizona Copper Company.
Locations- Mine office Jerome, Ariz. Home Office Little Rock, Ark. P.O. Box 74.
Mill ----- Smelter -----
Officers- President G. W. Clark Address Little Rock, Ark. - c/o Box 74.
Vice Pres. J. T. Robertson Address -----
Secretary H. S. Spivey Address -----
Treasurer ----- Address -----
Operating- Gen. Mgr. Chas. P. Miller Asst. Gen. Mgr. -----
Mine Supt. ----- Mill Supt. -----
Smelter Supt. ----- Auditor W. P. Weld, Little Rock, Ark. c/o Box 74.
Chief Engineer Chas. P. Miller Chief Chemist -----
Geologist ----- Purchasing Agt Chas. P. Miller
Safety Inspector ----- Efficiency Engineer -----
Ventilation Eng. ----- { Master Mechanic Harrison Mathews
and Electrical Engineer }
Milling process -----

Smelting process -----

Mining Methods Shafts, Drifts, Crosscuts, and Winzes.

Kind of power Steam, Electricity and compressed air
No. H.P. 250
No. men employed (approx. average)
Mine- Underground 3
Overground 3
Mill -----
Smelter -----
Mechanical Department 1

Kinds of ores Yellow Sulphides of Copper with some
Bornite and Peacock Copper

Average Daily tonnage same?

Bibliography of literature published about above property as far as known Only in the yearly Mines Inspectors Reports

Fourteen unpatented claims, Verde Mining District,

Maricopa County, Arizona. Next year, Patents will be applied
for claims located and denounced in 1906.

Mine stopped work Nov. 15th 1914 and opened up again Oct. 23rd 1915,
with retimbering the first 100 feet of shaft. The shaft has reached a depth
1640 feet and will reach the Orebody of the United Verde Mine by approxi-
mately 2000 feet. By 600 ft. from surface is a crosscut West 1328 feet in length.
By 115 ft. is another crosscut West of 1540 feet in length, by 1400 feet is another crosscut
to the west of about 1100 in length, 900 feet from shaft in the 115 ft level (called the 1200 ft.) a
Wing had been sunk and connected with the 1400 ft. level. The 1640 ft level is 535 ft.
in length to the west. In all these levels the ore zone has been crossed.

The mineralized zone is from 350 to 450 feet in width in which numerous stringers
and leads of yellow copper ore (Sulphides) occur, ranging from 2 1/2 to 11% in
metallic copper; but have not been developed as yet, but is the aim of the
undesignated in the nearest future, as soon as the water has been taken
out, which, stands up to the 600 ft. level.

Development work and production of ore will take place at once.

For further information I beg to enclose a Plan of the situation of
the Claims, a Cross-Section East-West through the A. & A. Shaft and a
Photograph showing the surface equipments of the Company with the
big hoist.

ARKANSAS & ARIZONA COPPER COMPANY
JEROME, ARIZONA

NOV 21 1915.

Very truly Yours:

ARKANSAS & ARIZONA COPPER COMPANY

By Chas P Miller Secretary

