

THE PHOENIX HERALD.

VOL. 3.—NO. 18.—WHOLE NO. 95.

PHOENIX, MARICOPA COUNTY, A. T. WEDNESDAY, JUNE 18, 1879.

NEW SERIES—NO. 25.

THE HERALD.
Published every Saturday and Wednesday.
GOSPER & MCCLINTOCK,
Proprietors.

SUBSCRIPTION RATES:
One copy per year, \$5.00
By carrier, in Phoenix, per month, 50c
By mail, in Phoenix, per month, 50c

ADVERTISING RATES:
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Each subsequent insertion, 1.00
Professional cards, per month, 1.50

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J. HEINSON, Proprietor.
Washington St., opposite court house.
EIGHT LOAVES OF BREAD OR EIGHT BREAD TICKETS FOR A DOLLAR.

PIES AND CAKES ON HAND.

PIONEER BAKERY!
WASHINGTON STREET,
Northwest Corner of the Plaza,
Eight Loaves of Bread for \$1.00
Fruit Cakes and Pastry of all kinds, for wedding parties, etc. prepared to order.
BAUGLEN & CO.

To Academies, High Schools and Private Families.

AN EXPERIENCED EDUCATOR OF months of both sexes, recently arrived in this town, teaches

LATIN, GREEK, FRENCH, SPANISH
And High School course of the English branches.
Address, PROF. P. G. JOYCE, 91-47

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MISCELLANEOUS.

Phoenix Hotel.
Washington St., between Maricopa and First streets.

CLEAN BEDS
And Well Ventilated Rooms
By the day or night.

Best of Accommodations for Families.

A SHOWER BATH connected with the Hotel for the convenience of guests and the public generally. J. S. GARDNER.

FRESH
Beef Cattle
WE RESPECTFULLY INFORM THE Retailers of Arizona that we are prepared to furnish on hoof

Fat Beef Cattle,
at any season, in any quantities, and at the lowest possible prices. The cattle are at the excellent grazing country around Tonto Basin, and in good condition. We will furnish the retailers in this section with dressed beef from our Slaughter House, north of town. Orders solicited.
RAITZ & KELLY, Phoenix.

Big Bug Station,
YAVAPAI CO., A. T.
27 Miles from Prescott and 80 Miles from Phoenix, on the Black Canyon Road.
Having purchased the above station, the traveling public will always find meals, grain and hay at all times. A bar, with a good stock of liquors on hand.
SNYDER, HUNCEY & CO.

T. Olson,
Boot and Shoe Maker.
Washington street, adjoining the Store of Castagna.

Fashionable Boots and Shoes of the best material made to order in elegant style.
PERFECT FITS GUARANTEED.
I give my entire attention to custom made work and I have every facility for giving entire satisfaction. Send in your orders.

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LUMBER! LUMBER!

Clark & Adams'
SAW MILL AND YARD,
PRESCOTT, ARIZONA.
Having moved our mill five miles west of Prescott, on Willow Creek, near Thumb Butte, at a point within five miles of the Mill road, near Iron Springs, and having completed an excellent road to the Mill road, and to Prescott, we are now prepared to furnish any amount or quality of

LUMBER,
Shingles, Doors, Sash,
LATHS, ETC., AT BEDROCK PRICES.
Barley, Flour, Corn and Produce
Taken in exchange for Lumber.
CLARK & ADAMS,
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JOE POHEIM,
THE TAILOR.
203 Montgomery Street and 103 Third Street
Makes the
Best Fitting
CLOTHES
In the City.

Washinton BATHS!
The public are respectfully informed that I have moved my barber shop to the building on Washington street lately occupied by the drug store of Dr. Conyers, and that I have also opened a first-class bathing establishment.
By strict attention to business I hope to warrant a fair share of your patronage.
Wm. STURDUE,
Late of San Francisco.

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List of Prices—American Goods:
Pants, from \$5.00
Suits, from \$7.00
Dressin' Pants, from \$2.00
Overcoats, from \$15.00
Vests, from \$3.00

No. 971 Montgomery street (Wash Block), and 103 Third street, San Francisco.
20-21 Samples and Notes for Sel; Measure sent free to any address.

MISCELLANEOUS.

AGENCY OF THE
Bank of Arizona,
PHOENIX, A. T.

Telegraphic or Sight Exchange Drawn on the Principal Cities of the United States and Europe.

WILL PURCHASE OR MAKE ADVANCES on Gold and Silver Bullion, Territorial and County Bonds and Warrants, Discount Commercial Paper, receive Deposits, payable on demand, undertake Collections and transact a general banking business.
Office hours from 9 a. m. to 4 p. m.
M. W. KALES, Cashier.

PHOENIX ART GALLERY,
Southwest Corner of Plaza.
THE UNDERSIGNED, HAVING COMPLETED his new Gallery, is now prepared to execute all work in his line in the best style and at reasonable rates.
A complete assortment of ARIZONA SCENERY always on hand.
A full line of Picture Frames and Mouldings.
Pictures framed to order.
G. H. ROTHROCK.

The United States BREWERY,
Wishes to inform the public and lovers of good
LAGER BEER.
That they have reduced the price of bottled beer, to
Three Dollars per Dozen,
In order to allow the poor as well as the rich, to obtain a beverage highly beneficial to health.
B. WEHRPRETZ
Lats of Salt Lake City Brewery.

White & Walters
KEEP A FIRST-CLASS
SALOON!
On Washington Street, Phoenix.

Imported Wines, Liquors and Cigars.
Cheap Living!
Board reduced to \$7.00 per week.
Single Meals - 50 cents.

Wines, Liquors and Cigars
ALWAYS ON HAND
and sold at prices to suit the times. A handsomely furnished club room attached for the use of our patrons.
BROWN & DANIEL.

Dudley House,
Garley St., Prescott, A. T.
A FIRST-CLASS HOUSE
On the European Plan.
New and Clean Beds for Lodgers, and Elegant Rooms for families.
FRED WILLIAMS, Prop'r.

T. J. MORGAN,
Garley street, one door east P. O., Prescott, Arizona
Dealer in
Diamonds, Watches, Clocks, Jewellery and Silverware, Spectacles, Gold Pens and Pencils, etc.

Watchmaker and Manufacturing Jeweler.
All kinds of jewelry and silverware made from native gold and silver. Engraving of every description. Seal presses and ribbon stamps.
The undersigned has just received a large and complete assortment of
DOORS, SASH, BLINDS, AND WINDOWS
Which are of a better quality and will be sold cheaper than at the
Sash Factory in Prescott.

Builders' MATERIAL.
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MISCELLANEOUS.

SKIRROW & MCKENNA'S SALOON
On Washington street, in the old Capital building, has been
Refitted and Refurnished.
Making it the most attractive place in Phoenix.

The Parlor adjoining contains games capable of amusing the most fastidious.
FURNITURE!
The undersigned has on hand a large assortment of
Furniture and Upholstery.
Also manufactures to order
FINE CABINET WARE, DOORS, WAHNSCOATING, AND OFFICE FITTINGS.
Eastern made chairs constantly on hand. On Washington street, adjoining the store of Nathan & Co. A. COEKA.

Livery Stable!
Washington street adjoining the Phoenix Hotel.
Horses Boarded by the Day Week or Month.
Keeps always on hand, the best quality of wheat and grain hay, barley and oats.
Good accommodation for teamsters and travelers. Keeps constantly on hand fine turnout. Horses boarded at my stable will receive the best attention.
GEO. HAMLIN.

CALIFORNIA BAKERY,
ADAMS STREET,
One block north of the Herald Office; also in the rear of Copeland's Sash and Blind depot.
Fresh Bread Always on Hand.
RYE AND GRAHAM BREAD
made to order; also
PIES AND CAKES.
25-30 Cents to suit the times.
CAME SCHREIBER,
(Late of San Bernardino) 86-11

New Saloon.
We would respectfully notify the public that we have opened a new saloon in the building opposite the Express Office, and intend to keep it as a saloon should be kept. The very best quality of
Wines, Liquors and Cigars
ALWAYS ON HAND
and sold at prices to suit the times. A handsomely furnished club room attached for the use of our patrons.
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Late of San Francisco.

E. IRVINE & CO.
A NEW DEPARTURE.

Cash Down Or No Sale.
WE WILL HAVE THE PAY OR KEEP OUR GOODS!

We hereby notify our friends and the public generally that from this time forth we will cease to sell for credit on any terms whatever. We are aware that in order to do this we will have to sell cheaper than our neighbors, and we are prepared to do so. As we are building we are very much pressed for cash, and therefore it will be better for us to sell for cash than to sell on ever so short a time, no matter how good the buyer. The facts in the case are just these: it is a necessity with us to have our goods or to have the wherewith to buy more. Of course we do not expect to do so much business, but we are determined to do what we can.
Our Lumber Yard is now full and nearly complete.

Provisions, Groceries, Dry Goods, Clothing, Boots and Shoes, Fruits, Honey, Summer Hats, Ranch Butter, Hardware, Tinware, Paints, Oils, Glass, Putty, Crockery Ware, Lamps, Powder, Fuse, Iron and Steel, &c., &c., &c., &c.

Irvine & Co.
Keep on the West side of the Plaza. Remember the sign over the door.

E. IRVINE & CO.
Variety Store
Tienda Barata.

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THE PHOENIX HERALD.
SEMI-WEEKLY EDITION.
Wednesday, June 18, 1879.

ARABLE LAND.
The Valleys of the San Pedro, Santa Cruz and Salinas.
Corr. S. F. Mining Press.
There is in Arizona but a comparatively small amount of land that will produce crops of any kind without irrigation. Here and there little valleys of a few acres exist high up among the rugged mountains, where vegetables could be grown without other water, than the natural rainfall. As for farming on any considerable scale, it is not to be thought of without water artificially applied, portions though not all of the valley lands along the San Pedro, Santa Cruz, Gila, Salinas and other rivers, yield abundant crops of the cereals where a supply of water can be brought upon them. As yet, farmers have confined the selves chiefly to raising wheat, corn and barley, but it has been proven that the soil and climate are adapted to the culture of the semi tropical fruits and other products, and these will be propagated more extensively as population increases.
SETTLING IN COLONIES.
The essential defect of the country is a lack of water. In some places it is found where it cannot be used; and in a few places there is plenty where it is needed, as for example, about the town of Phoenix in the Salinas valley, where large tracts regularly yield fine crops, and the community shows a condition of general prosperity. Here the water has not all been appropriated, and there is still plenty of fine land for improvement, more in fact than there is water to irrigate. The settlers who have been led to enter upon farming here, will have several difficulties to surmount in the start. As these troubles are better overcome by companies than individuals, it is usual to form colonies for the purpose; each man owning certain land and water privileges as may be agreed upon. The first condition is to find enough water for the purpose. This occurs only at intervals along the rivers, the water sometimes flowing for miles, far under the surface of the loose sand that forms their beds, and only rising when the water in the districts is underground course. The taking out of all the water from the river at certain points seems to have only a local effect. At the present time the bed of the Gila is dry at Florence, the water being all in use, while 20 miles below, the water flows with a volume as large as at Florence. This shows that the rivers carry a great deal more water than might be supposed, and fortunately that settlers above will not interfere to any great extent, with the prior rights of those below. In preparing for irrigation, large allowances must be made for loss by evaporation, and sinking through the light soil through which the ditches pass. The amount required per acre varies with circumstances, but a safe and general rule is to take all that can be had and cultivate as much land as it will supply.

IRRIGATION.
The next trouble lies in getting the water up from its natural channel to an elevation from which it will flow to the arable lands. This is often difficult and in many places impossible, as the river beds are usually from 10 to 20 feet below the desired level and bedged on either side by a belt of loose sand, through which it cannot easily be carried without fluming. There are places, however, where the channel is crossed by dykes of hardpan or country rock. These are selected from the construction of good foundations to withstand the winter freshets, which sometimes carrying them away, necessitating rebuilding. The irrigating ditches are here made wide and shallow, and with as little fall as possible, the land being so nearly level that it is necessary to keep the water as high as possible to be able to distribute over the entire surface. The construction of these canals is not very expensive, the soil being so light, with little rock and no timber obstructions to remove, that the work can nearly all be accomplished with plows and scrapers. Once having the water at a proper height and clear of the sand belt, it is a comparatively light task to carry it where wanted. In some sections the canals, when in constant summer use, become obstructed with a species of water-grass, which, fastening its roots on the inner banks, grows so rapidly that it has been known to attain a length of two feet in a couple of weeks. Its long fibers waving in the stream from either bank become entangled, and unless removed from time to time, choke up the channel. A ditch less than a mile in length, near Tucson, requires the constant labor of one man to keep it clear of this intrusive fiber. The trouble, however, can be averted by turning the water off for a few days, when the burning sun quickly scorches the grass to death.
PLENTY OF LAND.
As before remarked, of the vast area of this Territory, but a diminutive fraction is suitable for grain raising in its natural state. There is much good land along the river valleys still open to pre-emption and entry under the Desert act, the most of it being desert land.
There are countless miles of country

here that would break the capitalist who tried to work it, even if he got it for nothing. Still it must not be inferred that there are no lands left which can be acquired and worked to advantage; on the contrary, there are many opportunities for either colonies or individuals to settle here, and by industry and perseverance acquire a competence. The precautions to be observed are to get lands fertile in themselves, and which can be supplied with an abundance of water. Much of the choice land on the Santa Cruz and San Pedro rivers has already been pre-empted or taken under the Desert Land act, but both the Salinas, or Salinas is here called, as well as on the Gila river, there is much good land that can be had for the taking, and which could be cultivated to great profit.

THE CLIMATE AND ITS EFFECTS.
Prove decidedly enervating to some constitutions, many so overcome by it as to readily fall into idle and dissolute habits. This is very apt to happen with persons thrown into the company of Mexicans, who form a large portion of the population, and who are as a class but little better in advance of the native Indian. Like the helpless shell fish they lie demurely waiting any morsel that the tide may bring them, actual starvation being the only thing that can stimulate them to exertion. To sit all day long in the shade, the first duty of life being rest and sleep, with a diet of dry bread, chill pepper and unleavened bread. A herd of horses and cattle are utilized in threshing their grain; after which, taking advantage of a windy day, the squaws winnow it with baskets. When a white man has adopted the above and sundry other customs peculiar to the Mexican, he is said to be "galvanized," he who escapes this process being called a "tender foot."

If, with all the advantages of crude and primitive farming, as above described, even the Mexicans and Indians can manage to get along here, it is certainly feasible for white men, with improved machinery, not only to live, but to make money at the same business. The arable lands are all level and of broad expanse, and well adapted to the use of machinery. "Lodging" and rust are troubles hardly known and heavy crops are a foregone conclusion wherever the land is properly tilled and the conditions are favorable to begin with. The expense of clearing land in most places is simply nothing, a heavy plow answering to grub up the sage brush, about the only shrubbery. Where the mesquite reaches the dimensions of a tree, the wood more than pays for its removal from the land. Although fencing is sometimes resorted to where the clearing of the land furnishes the material, it is by no means necessary, stock ranges being confined mostly to the mountain districts, where farming is impracticable.

The Richmond Basin mines are proving all that their owners anticipated, every day's development adding to their value, the question of a true fissure vein and permanency is now a settled point. Messrs. Biggs, Canfield & Newland are now down on the main shaft of their La Plata mine sixty feet, ten feet below water level and rich sulphuret ore continues regularly through the whole width of the ledge, seven feet. Whole tonnage is now coming in, carrying rich and native silver, all of which goes to show there is a lead or "bonanza" of silver below. The showing of this great ledge is truly flattering, three consecutive claims carrying the same high grade ores, same uniformity in width of ledge and make a run of metal of 2229 feet. It looks strange to hear of men looking for good mining property to invest in, and at the same time such mines of undoubted richness and value as these mentioned to remain in the hands of the original owners, miners without means to develop them except when they are forced to do so by extracting ore to support themselves. This is done and under every disadvantage, necessarily using none but their high grade ores for that purpose. When capital once takes hold of the Richmond Basin mines, there will be such a production of metal, that the great astonishment will be why those mines remained so long out of the hands of capitalists.

The ancient Greeks and Romans had considerable regard for the month of June. It was the month of all others for getting married, perhaps because the month of May was studiously avoided for the completion of matrimonial engagements. A curious custom still prevails in St. Petersburg in June, though of late years it has nearly died out. On a certain Sunday in June, all the young marriageable girls of the city, under the protection of a chaperon, parade the public square for the purpose of finding husbands. Should a young man be attracted, he inquires the name and address of the one who attracts him, visits her parents, asks as to her dowry, and explains his own worldly position. It all is satisfactory to both parties, the betrothal follows, and in time the wedding.

On May 28, in San Francisco, articles of incorporation were filed of the Empire and Hartford Gold and Silver Mining Company, to operate in Maricopa District, Pinal county, Arizona. Capital \$10,000,000. Directors—Frederick Clay, A. Brunel, Sam'l Robinson, D. Schindler, John W. Malon.

It is rumored among the railroad boys that Conductor Sippy, of the Yuma Division, who went up to San Francisco yesterday, will return with a life partner, negotiations to that effect having been in progress for some time.—L. A. Herald.