

A Story of Phoenix Arizona Lodge No. 335

Benevolent and Protective Order of Elks

By "CAPTAIN JACK" POLAND

Editor Pacific Coast Elk

OFFICERS OF PHOENIX LODGE

No. 335, 1920-1921
 Exalted Ruler..... E. M. Berg
 Esteemed Leading Knight..... E. L. O'Malley
 Esteemed Loyal Knight..... Joseph C. Haldiman
 Esteemed Lecturing Knight..... E. F. Harrington
 Secretary..... Wm. J. Martin
 Treasurer..... H. B. Cassidy
 Filer..... Joseph Delaney
 Inner Guard..... Walter Thalheimer
 Esquire..... Louis J. Hart
 Chaplain..... Harry J. Bennett
 Organist..... I. J. Lipsohn
 Trustees: J. C. Graves, E. A. Trin-
 cano, R. C. Saufley
 Delegate to Grand Lodge..... Guy Alsap
 Alternate..... A. A. Betts

One of the most interesting Elk lodges in our gloriously attractive Western country is that of Phoenix, Arizona, No. 335, which recently celebrated its twenty-third birthday in a joyous manner, while in the midst of a great membership campaign, and working strenuously for a handsome new Elks home to cost some \$400,000, during all never ceasing to boast for Elkdom.

Members of this steadily growing Arizona Lodge are believers in the precepts of the Order. Of its cardinal principles of Charity, Justice, Fidelity and Brotherly Love, and in its democratic spirit of recognizing no particular creed or class, and being no respecter of persons. All Elks are equal within the portals of an Elk Lodge—rich and the poor, the proud and the humble, the learned and the unlearned, the distinguished and the obscure, are all exactly equal and alike, differing only as one may excel another in loving the good and the beautiful and in performing noble deeds in silence and without parade. There are no ranks and titles in this magnificent Order.

Following these ideas during its early a quarter of a century of



E. M. BERG
Exalted Ruler



E. L. O'MALLEY
Loyal Knight

Charter Members of Phoenix Arizona Lodge, No. 335

March 27th, 1897-1896

✓ SCOTT HELM
 ✓ T. J. CARRIGAN
 ✓ S. J. MICHELSON
 ✓ H. E. STROUD
 ✓ FRANK H. HUGHES
 ✓ A. M. TUTTLE
 ✓ W. E. DOTY (S.D.)
 ✓ J. M. DOWSING
 ✓ J. P. KRABER
 ✓ ED RUPPERT
 ✓ L. J. WOOD
 ✓ VIC E. HANNY
 ✓ O. E. ROBBINS
 ✓ J. E. TEETER

✓ MARK H. HEISSMAN
 ✓ OTTO WALDICK
 ✓ P. B. FIELD
 ✓ IRA P. SMITH
 ✓ G. H. HIRSHFELD
 ✓ HANS HERLICK
 ✓ FRED N. SCHOFIELD
 ✓ SAM LEVI
 ✓ BEN M. CRAWFORD
 ✓ S. W. BAYLEY
 ✓ ROBERT F. DOLL
 ✓ PERRY M. WILLIAMS
 ✓ J. M. FORD
 ✓ C. F. MORRELL -

Charter was applied for by Ernest Ulman, C. F. Morrell, L. M. Kerr, Isaac Peyton and Franklin Bettman, February 24th, 1896.

Charter was granted at the Grand Lodge Session of July 7th-12th,

existence, Phoenix Lodge has become one of the notable Elk organizations of the country, ever there with the leaders in all meritorious movements for the good of their lodge and city.

Today, Phoenix Lodge No. 335 has more than 1000 wide-awake, active members, ranking as the largest lodge in Arizona in point of membership, owns its present attractive home building and is planning the early erection of a greater and more commodious home to cost \$400,000.

This lodge represents the highest type of Elk progress, while enjoying the prestige of being one of the most hospitable lodges in the West. A reputation earned by years of constant courteous attention to the wants and comforts of its many visitors and steadily increasing membership, efficiency in ritualistic work, and that open-hearted congeniality that has ever won recognition for Phoenix and

the State of Arizona anywhere members of No. 335 travel.

This is a sketch of No. 335, Phoenix, Arizona, Lodge, B. P. O. Elks, in a nutshell. And there is a wealth of romance and a vast amount of inspiration and suggestion of commonsense, business-like management in connection with the lodge affairs covered up in the brief statement, which bridge a gap of twenty-three years in the history of this Elks organization, which is perhaps more closely affiliated with Phoenix's growth and development than any other institution identified with the great strides and substantial upbuilding of this now well known Arizona metropolis.

The early day struggles of this splendid lodge of Elks are semi-historically interwoven with that of the history of Phoenix, and of the able men who in the face of all difficulties have fought and remained loyal, determined and un-

daunted through years of up and down existence.

Members of No. 335 are loyal to every civic and municipal interest called to the lodge's attention, and stands today as a lodge pre-eminent with a record of heroism, true to every precept of the Benevolent and Protective Order of Elks of the United States of America, responsive at all time to the spirit of Charity, Justice, Brotherly Love and Fidelity.

The splendid majority of Phoenix Lodge are loyal at all times. And we must take off our hats to the wonderful tenacious few who have faithfully guided this lodge for more than a decade, alert Elks who have ever stood high in real endeavor, enterprise and achievements; men whose names are interlinked with Phoenix's growth and industrial and development interests.

Phoenix Lodge provides every Christmas for thousands of needy people, and gives the children of the orphan institutions and others, clothing, toys, candy and fruit, large baskets of food, coal and other things that help make life glad for the little ones and older folks in want, and even during the unusually heavy financial demands during war times, the annual occasions of caring for the orphans and the poor on Christmas was strongly featured.

On the following pages we tell interestingly of some of the pertinent incidents of good old No. 335, as we found them on the lodge minutes.

Also a sketch about the building campaign which means a handsome new home for Phoenix Lodge, all of which is interesting to the 650,000 Elks of the United States of America.



Leading Knight
JOSEPH C. HALDIMAN



E. F. HARRINGTON
Lecturing Knight

THE PACIFIC COAST ELK

PHOENIX, ARIZONA, LODGE OF ELKS 23 YEARS OLD

The Capital City of the Most Picturesque of Western States Is Proud of Its Lodge of Elks, and the Splendid Men Who Comprise Its Membership Are Boosters for Growth, Prosperity and Standing of Their Home City

INTERESTING SEMI-HISTORICAL SKETCH OF PHOENIX ARIZONA LODGE, B. P. O. ELKS, NO. 335

Phoenix, Arizona, Lodge No. 335, Benevolent and Protective Order of Elks of the United States of America, is one of the pioneer lodges of the West.

A charter for this lodge was applied for to the Grand Exalted Ruler under date of February 24, 1896, and a dispensation was granted by the Grand Lodge in session in July, 1896.

were held in the old Monihan building; then for a time held in the City Hall; then to what was known as the Orchard Grave building, now the Balke building. Thence for a short time in the K. of P. building.

After some eight years had passed the lodge became stronger in every sense of the word, and it was decided to purchase a home.



WM. J. MARTIN
Secretary



HARRY J. BENNETT
Chaplain



JOSEPH DELANEY
Tiler



PERSPECTIVE IN THE ROUGH OF PROPOSED NEW \$400,000 ELKS HOME FOR PHOENIX LODGE
(From a Pen and Ink Sketch)



WM. J. THOLHEIMER
Inner Guard

On March 27, 1897, Phoenix Lodge was ushered into Elksdom with the following original members, who signed the constitution and by-laws on that date:

Scott Helm, Mark H. Heissman, T. J. Carrigan, Otto Waldick, S. J. Michelson, P. B. Field, H. E. Stroud, Ira P. Smith, Frank H. Hughes, G. H. Hirschfeld, A. M. Tuttle, Hans Herlick, W. E. Doty, Fred N. Schofield, J. M. Dowsing, Sam Levi, J. P. Kraber, Ben M. Crawford, Ed Ruppert, S. W. Bayley, Robert F. Doll, L. J. Wood, Vic E. Hanny, Perry M. Williams, O. E. Robbins, J. M. Ford, J. E. Teeter, and C. F. Morrell.

The first meeting was called to order and Dr. James M. Ford, now of Alhambra, California, was in the chair.

The first meetings of the lodge

In 1905 the membership had grown to about 150 members, and the brothers felt they needed a place they could call their own. Concentrated action resulted in the purchase of the present home of No. 335, which cost about \$18,000, and is an attractive and very desirable property, yet too small to care for the steadily growing membership, which is now 1306 to date.

A magnificent new home to cost about \$400,000 is now in contemplation, an architect's drawing of which is shown on the opposite page in perspective, a full story of which appears further along in this article.

The present home is well appointed, with a spacious lobby and reception room and theatre on the ground floor, with club rooms on the second floor and the



LOUIS J. HART
Esquire



H. B. CASSIDY
Treasurer



J. C. GRAVES
Trustee



R. C. SAUFLEY
Trustee



E. A. TRINCANO
Trustee



FRANK McCABE
Former Secretary, Phoenix Lodge

lodge room on the third floor. A review of the minutes of the lodge for some years back reads most interestingly, showing that the members of Phoenix Lodge have been constantly alert to their duties to Elkdom, while making strenuous efforts to steadily and persistently advance. The results as shown today are most gratifying, and the future of this splendid lodge of Elkdom in the capital city of Arizona shows the organization to be substantial, progressive and alert to opportunity to do good for the Order, to benefit their home city and the territory surrounding, and to carry out the magnificent precepts of the B. P. O. Elks, "Charity, Fidelity, Brotherhood, Love and Justice," in that splendid manner for which the Order has been noted during its more than half a century of honored existence.

May 4, 1911, the lodge made an appropriation of \$100 to be used for the preservation of the American Elk. Following this the following resolution was passed:

"Whereas, It has come to the notice of No. 335 that there is a condition existing in regard to the noble animal which is the emblem of our Lodge and Order, we do hereby empower the Hon. Frank De Souza, representative of No. 335 to the Grand Lodge to convene in Atlantic City in July, 1911, to use his every effort toward securing some action by the Grand Lodge to make proper distribution and care of the American Elk."

In June, 1911, the first club manager was appointed.

On October 26, 1911, it was moved and voted that Phoenix Lodge No. 335 appoint a delegate to meet other delegates from other lodges of the then Territory of Arizona for the purpose of forming a State organization. Frank De Souza was appointed and was the first president elected by the association.

Phoenix Lodge about this time decided to appoint for each lodge term permanent committees on theatricals, who look after the details for a big performance each year, which is now called "The Elks' Frolic," and is one of the events of Arizona Elkdom.

On March 21, 1912, Phoenix Lodge chartered a special train and attended the State Association meeting held in Tucson.



GUY ALSAP
Past Exalted Ruler and Delegate to Grand Lodge Convention, 1920

Back in 1912 a memorable baseball game was played between the Leans and the Fats, a semi-historical sporting event in the annals of No. 335. The committeemen in charge were Brothers Alsap, Cisney, Ingles and Byers.

In June, 1912, a gavel was presented through the efforts of No. 335 to the Grand Lodge, and it was called "Arizona Gavel." All lodges in Arizona participated in the gift, which was a handsome tribute.

In May, 1912, Phoenix Lodge acquired through an arrangement with Mrs. Josephine Lund a valuable property in Glendale, which was disposed of in December of that year for \$2750, which money

helped the lodge very much on its road to prosperity.

A memorial tablet was erected in May, 1913, on the 25th day of the month. A vote of thanks was extended Brothers Garfield and Harry Taffe for their efforts in aid of the movement.

In October, 1913, a beautiful officers chair was presented to Phoenix Lodge by members of the Arizona Club.

In 1915 Phoenix Lodge sent a delegation of some 250 of its hand-

Prevention and Spread of Tuberculosis, which was increased April, 1919, to \$200 each year.

The lodge has always been liberal in extending the privileges the lobby and library to conventions that could not be taken care of in the old days by the City of Phoenix, and this custom continues from year to year.

In November, 1914, the Mini Congress had occasion to use the privilege, and the organization has from that date been strong boosters for Elkdom.

During recent World's War the Elks building was frequently used by committees directing various relief measures and movements beneficial to our country.

Phoenix Lodge has a splendid record of subscribing for Liberty Bonds and in boosting the sale thereof, also doing much in Thrift Stamp campaigns.

Wm. J. Martin, the present esteemed and popular secretary of No. 335, who made a splendid record for the lodge as secretary of the War Savings Stamp campaign and who later joined the army and went to France, is entitled to much credit for the substantial showing made in this work, although Bill modestly disclaims credit for his energetic efforts.

The Red Cross, Y. M. C. A., Jewish Relief, Knights of Columbus, Salvation Army and other meritorious organizations, were materially aided by this splendid body of Arizona citizens, no call ever being unheeded. This applied to the lodge itself and to its membership of patriotic, red-blooded American Elks.

During these days a committee was appointed to handle food conservation projects and a base hospital fund.

Phoenix Lodge gave a grand send off and goodbye reception to the contingents from Phoenix training camps as the boys departed for the front during the



A. A. BETTS
Past Exalted Ruler, Alternate Delegate to Grand Lodge

somest and most active members to attend the Grand Lodge Convention held in Los Angeles in July of that year. The Elks were elegantly uniformed and equipped in every way and made a magnificent showing in the California Angel City.

And we might add, that Phoenix Lodge will visit Los Angeles in the year 1921 in even greater numbers, if that city captures the Grand Lodge Convention, as it now hopes to do.

On April 17, 1917, the lodge voted to donate annually \$100 to the Maricopa County Society for

war days, and this glorious lodge has an honorable record of 180 of its members on the Honor Flag.

On April 24, 1918, a rousing vote of thanks was given the officers of the lodge for having initiated eighty-four new members, the largest class in the history of No. 335.

In June, 1919, a popular subscription resulted in raising \$11,000 for the Salvation Army, to which the lodge added the sum of \$3000, making a total of \$14,000.

In the recent campaign for funds for the Roosevelt Monument, the lodge contributed \$50.

When that renowned and distinguished Brother Elk, General John J. Pershing, commander-in-chief of the American Expeditionary Forces in France, a member

of El Paso, Texas, Lodge, visited the City of Phoenix last year, the lodge membership paraded in a body in honor of the wonderful brother who has ever shown his love for Elksdom and its precepts. On this occasion the float of Phoenix Lodge was elaborately decorated and used in parade. Brother Pershing will ever remember his visit to Phoenix and the Elks of that city.

The sum of \$100 was contributed toward a float to be used in the parade during the Grand Lodge convention to be held in Chicago in July of this year. This float is to represent all Arizona lodges, each of which will contribute, and a wonderful presentation will be featured for Arizona in the big convention city.

PHOENIX, ARIZONA, LODGE NO. 335 INAUGURATES \$400,000 HOME BUILDING CAMPAIGN

Phoenix Lodge is out for a handsome new home building to cost approximately \$400,000. We present on this page a tentative drawing, giving a perspective of a four-story structure, to be passed upon by the building committee and submitted to the membership in the near future for action. Other plans will be submitted, and the final selection is yet to be made.

The idea as proposed is to have the ground floor divided into store rooms of the most advisable class.

The new home is to be erected on a lot 100 by 137 feet at the corner of Second avenue and Adams street, which property is owned by Phoenix Lodge No. 335.

On the second floor will be the club rooms, consisting of the secretary's office, where Secretary Martin will welcome visitors; a coat and hat room, billiard room, and library and writing room, card room, rathskeller and kitchen. The kitchen to be built in sufficient size to serve a banquet of 1000 or more people, and to be connected by dumb waiters with the banquet room, which is to be on the fourth floor. On the second floor it is proposed to have a large lounging room and the ladies' parlor. On the Adams street side an opening from the lounging room will be on a veranda over the sidewalk.

The third floor will be occupied by a dormitory consisting of forty sleeping rooms of different sizes and conveniences for the members of the lodge and for visitors.

The fourth floor will be devoted to committee rooms, preparation and paraphernalia room, and the great lodge room, 65 by 90 feet, which may be used for receptions, dances or banquets.

The fourth floor will be devoted to two sections, one to be used

for out-door sleeping, and the other as a roof garden. These features to be decided later.

The idea as now proposed and freely discussed is that the new home as proposed will cost about \$250,000, with some \$50,000 for furnishings. Additional costs may raise the total figure to \$400,000, as now planned.

It is proposed to raise the building fund money from various sources. The first proportion of \$150,000 by first mortgage bonds bearing five per cent interest. Payments on this bond issue will be acceptable in ten equal payments on the installment plan, and Liberty Bonds will be accepted at their market value.

However, we might state here, that the financial problems are being rapidly settled, and Phoenix Lodge is soon to have its \$400,000 home, where the 650,000 Elks of the United States of America will be just as welcome as they are today in the modest yet attractive and appropriate home of No. 335.

The Building Plan

The big start has been made. The plan proposed called for the appointment of ten captains, who in turn appoint five members on their teams. The membership of the lodge has been divided into ten equal divisions and a card has been made out to each member. The ten groups of cards have been passed along, one to each captain, who in turn has divided them among their teams. Each member of a team will call upon those whose names are given him. He will be equipped with cards showing the amount of money subscribed, the amount on the initial payment and the amount due the first of each month, starting May 1.

The campaign to raise the first \$200,000 was started on April 15.

It is expected that each member of No. 335 will subscribe, and it is believed by the finance committee that the fact that payments are in ten equal installments, with only ten per cent payable at once, will facilitate the raising of funds to a great degree.

The \$200,000 to be raised is not in any sense a donation. The money subscribed is for bonds to be secured by a second mortgage on the property and building to be erected.

And there has never yet been an Elk building mortgage forfeited.

A first mortgage for an equal amount will be underwritten following the raising of the initial \$200,000 from the members of Phoenix Lodge No. 335.

Plans for this building have been requested from a number of prominent architects, the one considered the best will be used and the second and third best will be rewarded for their trouble.

The captains of the teams doing the soliciting for funds are as follows:

Oliver King
R. E. Grace
Jack Halloran
Bert Clingan
Luke Henderson
Harry Cox
A. H. McLellan
A. E. Trincano
Fred Joyce
A. G. Dulmage.

The finance committee of the lodge is in direct charge of the entire campaign.

In the completion of this wondrous project it now looks as if a many years' dream of Phoenix Lodge No. 335, B. P. O. Elks, is about to come true, and the results of the retiring Exalted Ruler Guy Alsap's untiring energy will bear fruit, while the incoming Exalted Ruler, Ed Berg, will and has begun under auspices that will semi-historically link his name with that of the history of Phoenix, Arizona, B. P. O. Elks, No. 335, and the proposed \$400,000 new home.

SON OF PIONEER

Past Exalted Ruler Guy Alsap Enjoys Splendid Prestige

Retiring as Exalted Ruler of Phoenix, Arizona, Lodge No. 335, after a year of faithful and intensely interesting service. Guy Alsap will go to Chicago in July as the Grand Lodge delegate from his city with a report that will show a large increase in membership, a great campaign on for an assured \$400,000 new Home Building for his Lodge, and with other information worthy of attention.

This capable young Elk leader

is known among his fellow as "One of the Best in the West." He stands high in fraternal other circles of Phoenix and man among men. And the worthy tribute the writer can is that Guy Alsap loves his and his wife loves him. The true Elkish sentiment makes our wonderful order great power it is today.

Guy Alsap was born October 26th, 1885 in Phoenix, Arizona. He is the youngest son of the John T. Alsap, who died when son was but a year old.

The elder Alsap was a pioneer of the Territory of Arizona, was the first Territorial Treasurer under Grover Cleveland. He was the first Probate Judge of Maricopa County, and was a Trustee for the townsite of Phoenix, being a man very prominent in civic and political life of the early territorial days.

The son, Guy Alsap, was reared and educated in Phoenix, graduating from the Phoenix High School in 1905. In August 1906 he was married to one of the finest girls in Phoenix.

In 1909 he entered the employment of the National Bank of Arizona and has been with that strong institution to the present time, being assistant cashier.

In May, 1909, Guy Alsap joined Phoenix Lodge No. 335, and November of that year was elected secretary of the lodge, a position he filled with splendid satisfaction until November of 1917, when because he was unable to give his time to the work, he resigned.

In October, 1918, he was elected Leading Knight, to fill an unexpired term. His ability was demonstrated in such an interesting manner that he was honored by being elected Exalted Ruler in April, 1919. During his reign he answered every roll call but one. While secretary he missed but three meetings in eight years, and his record shows that he has been an active worker in Elk Lodge interests for the past ten years.

During his administration the membership showed a great increase, and he has been and continued to be a steady and persistent worker for the new \$400,000 home building project for Phoenix Lodge. His selection of the most able men on the most important committees has borne fruit of the highest order. These men have gone out and returned with results all along the line.

This in brief is a sketch of the lodge career of one of the best known and most popular Elks in Arizona, Guy Alsap.

He who has enough—good health and a few friends—is rich. And he who has more than this has less.

Towns of the Valley

Numerous towns have been built in the several new districts beyond the project, including Litchfield on the west and Good-year on the south. Within the project are several rapidly growing towns. The list includes Chandler, Glendale, and Mesa, incorporated towns; Gilbert, Peoria, Alhambra. Marinette is the town for the Phoenix country lying farthest north. Its district is partly in the project and partly in the private pumping irrigation territory. Tempe, next to Phoenix in age, has its own irrigation district supplied by waters from the Salt River. It is nine miles southeast of Phoenix on the main road east known as the Apache Trail.

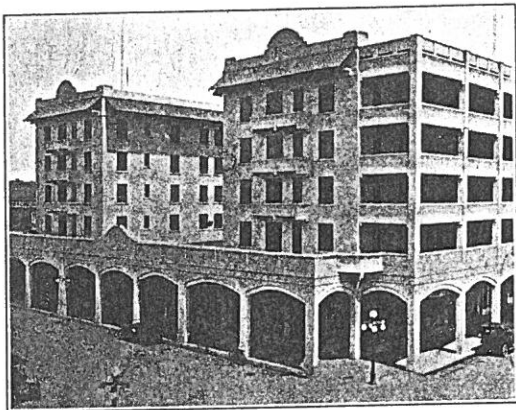
Phoenix in Detail

Phoenix is the largest city between El Paso and Los Angeles. Its geographical position makes it of more prominence than the average city of its size, it is so far removed from any great population center that it becomes a metropolis in itself. It is independent of the world in many respects and its country is big enough to feed and clothe several states. But because of this independence it realizes its responsibility as a truly great community, bringing forth its strength from within that it might help the world in every way which lies within its power. It has gathered people from every part of the world and given them a chance. Some of these have failed, but most of them have succeeded. Failure and success here depends upon the man. But with regard to business itself, the percentage of failure is so small as to be considered of no consequence, as rating companies by their figures prove.

Phoenix in 1910 had a population of 11,134 as against 40,257 today. The elevation is 1,080 feet. The average yearly rainfall is eight inches. Building permits for 1919 amounted to \$2,380,008, as against \$634,462 ten years ago. Bank deposits for eleven months in 1919 amounted to \$23,559,026, as against \$4,302,735 for 1910. The assessed valuation of Phoenix is \$31,534,402 as against \$9,013,353 ten years ago. The postal business in ten years has increased from \$80,530 to \$250,000.

City Government

Phoenix has the commissioner-manager form of government. There are five commissioners elected and they appoint the city manager who in turn appoints department heads. The Mayor of Phoenix is the Chairman of the Commission. He is one of the



The Adams Hotel, Phoenix, Arizona

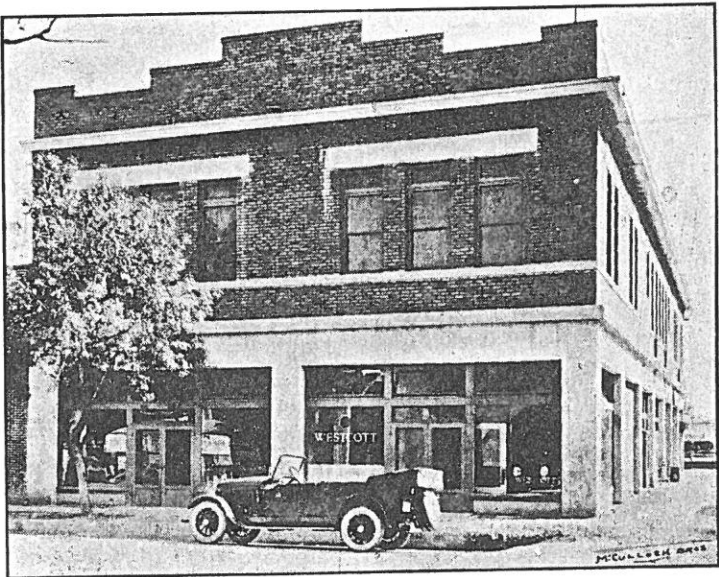
five members of the executive body, although he must be elected Mayor, or Chairman, by the people every two years. Elections are held every year, two commissioners one year, and three commissioners the succeeding year being placed in office.

There is an average of thirty police officers on duty throughout the year. There are three fire stations including one large central station. This fire department has received national recognition through the official organizations for efficiency and equipment. The street department, under the direct supervision of the City Engineer, is equipped with every device for keeping the municipality clean and healthy. Other departments include the water works; building, plumbing, electric and inspector of weights and measures; tax, purchasing, health and the assessor and the treasurer. The city has a public library set in a pretty park covering two city blocks. The building is a Carnegie endowment.

City Water

Phoenix is preparing to receive a new water supply. It will come from the Verde river, about forty

miles away. Work is now being done under a \$1,300,000 bond issue which carried practically by unanimous vote in 1919. The plan is to draw the water from the Verde river through an infiltration intake under the river bed of sand and gravel, and convey it to the city in a large main. This main will tap the present water pipe system for the distribution of water throughout the city. The old system drew its water from deep wells. The water was pumped into a standpipe for pressure. The city outgrew this old system years ago. The new system will supply the city with the softest and best water obtainable. The main which will carry the water of the Verde river over the desert to Phoenix will have capacity sufficient to supply a city of 100,000 persons. At a point seven miles north of Phoenix, a reservoir will be constructed in a rocky bluff. This reservoir will have a capacity of twenty-five million gallons. The pressure at hydrants will be standard or fifty pounds. This pressure can be adjusted, if desired, for less or for more. The pressure for the old system was forty-three pounds average. Con-



The Home of the Westcott Automobile, Phoenix

cerning the water supply and population, the new system can be made to supply much more water through the medium of the reservoir, when such is needed. Engineers' estimates for a city of 100,000 are based upon the minimum rather than the maximum. It is, therefore, considered by Phoenixians that the new system will be adequate to all needs for some years, despite the growth of the city the past few years to 40,000 inhabitants.

Paving

The business district of Phoenix is well paved and the principal residence districts have paving. The city will have more than 3 miles of paved streets by January 1, 1920, as judged by engineer figures at hand. The City Engineering Department, in its statement on paving operations, gives the total of street paving to date of February 13, 1920, as 448,966 square feet, or eighteen miles with work initiated during 1911 as 291,654 square feet or fifteen miles; and work initiated in 1920 to February 13th, as 42,400 square feet or 2.29 miles, a total of seven and a half miles of work initiated. This work will be completed this year and will make a total of more than thirty-five miles.

Paving petitions are being received by the City Commission; almost every meeting and new work is being placed in the hands of the City Engineer with similar regularity. The city has recently taken into its limits several well-populated districts contiguous to the north, west and east. These will give the city not less than 12 miles of streets. Much of this mileage is graveled and rolled.

Drainage System

A city drainage system will be completed this year at a cost of \$100,000. This system will surround the business district and by an infiltration process ground water will be drawn into a pipe line and thereby carried to the Salt River south of Phoenix. The plans which are now being carried out call for the installation of a pipe line, with loose joints at a depth of about 12 feet, running from the river around the business district, a distance of about ten miles. The stratum under which the pipe is laid is several feet of upper soil and five feet of surcharged water soil. The pipe is laid at the bottom of the latter. The plans of the engineers are to reduce by the pipe line one foot each year the water contained in the surcharged stratum. It will, therefore, take five years to drain the water from this stratum. After the fifth year the drain will carry off the normal seepage and under