

Well-Drilling Methods in the Mimbres Valley

By R. Bedichek, Deming, N. M.

SUCCESSFUL wells form the basis of the farming development in the Mimbres valley. It has been demonstrated, and the reports of various engineers of national reputation are conclusive, that the water supply of the Mimbres valley is ample to convert the entire area of the valley into one huge alfalfa field. We know where the water is, and the character of the strata in which it occurs. Therefore the matter of reclaiming the Mimbres valley resolves itself into the mechanical proposition of devising cheap and effective means of reaching the water on the top of the ground.

There are those who claim that a properly constructed well in this valley would develop artesian water. Two artesian well experts who have recently visited this valley are of this opinion. W. W. Bramlette, of California, who has been in the artesian well business for years states that there is absolutely no doubt that this region has artesian water. He outlines the following method for developing it. The well drill needed, according to Mr. Bramlette, is that known as the "rotary" type. Stove-pipe casing should be used and forced down immediately following the drill.

Should be Deep. The hole should be put down 500 or 1000 feet, and an accurate record of the same kept. When the hole is completed, it is, of course, raised from top to bottom with stove-pipe casing. A perforator should then be lowered inside the casing and the most likely stratum let in by perforating the casing. For instance, say that it is found that by perforating a stratum at 520 feet, the water is raised within 10 feet of the surface. The driller then knows that the 520 foot stratum has artesian pressure. Say that he next perforates the stratum at 300 feet, and finds that the water low-ers a little after such perforation. This shows him that in subsequent wells, the 300 foot stratum is to be left cased off. He next perforates the stratum at the 240 foot level, and finds that the water rises. This shows him that this stratum has an artesian head. Thus by eliminating those strata which have artesian pressure and letting them and them only into the well, Mr. Bramlette is of the opinion that artesian water can easily be developed here. No such well has been attempted as yet.

D. L. Grimm, an experienced deep-well man of California, who is now in Deming this week, and expressed exactly the same conviction as that expressed by Mr. Bramlette. "Pump Below Artesian." However, there is little interest in this valley in artesian water. The pumping proposition is considered the safest, the least expensive, and all-around the best proposition. So there is much more interest in developing proper pumping wells than in developing artesian water. At the present time there are more auger-outfits in the valley than any other type, and many good wells have been put down with these rigs. The well of the Little Vineyards Co., probably the largest well in the valley, was put down by one of these rigs; the wells of M. L. McBride, P. K. Connaway, J. M. Snyder, W. F. McRoberts, all good wells, were put down with auger-outfits. All there is considerable dissatisfaction with these rigs on account of the length of time necessary to complete a well with one. When the water-strata are encountered, they excavate tremendous reservoirs, which later in many instances must be filled in with gravel to prevent caving. They have the advantage of putting down a large hole and thus allowing the installation of the pump at almost any level desired.

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Rotary Rigs Abandoned. Rotary rigs for well-drilling in the Mimbres Valley have practically been abandoned. While drilling with this character of rig, the sand and gravel strata carrying water are cased up so as to prevent caving until the hole is completed and the casing inserted. Then the clay so used must be pumped through the screen in order to develop the well. It has been found that sometimes this works and sometimes it does not. At any rate, the caving of wells in order to make the hole stand up is considered a dangerous practice. There are many fine old wells in the Mimbres Valley furnishing water for irrigation. The well of Reed and Carter, a mile west of Deming, is a good example of this type of well. It is dug with pick and spade down 55 feet. Then the pump was pumped on to keep the water level in the well. Well-diggers dug as much deeper as possible, about five feet. A perforated cement brick casing was used to the bottom of this well, and it has proved very successful. The plant at present delivers about five hundred gallons of water per minute, and the well itself cost not to exceed \$100.00.

The Air-Tight Well. A new type of well known as the "air-tight well" is now being tried out here by Messrs. McMath Bros. of Vacaville, Calif. They used a No. 5 Key-stone rig operated with a 25 horsepower steam engine. A regular drop drill is used for ordinary boring, and the drill is replaced by a sand-bucket when casing strata are encountered, the casing being forced down right after the sand-bucket. The ordinary well of this type is cased with twelve-inch casing down to the bottom of the first water-bearing stratum, and the hole is then reduced to eight inches and continued on down as before through the second water-bearing stratum. If the two strata thus far encountered seem to be strong enough to furnish the amount of water desired, the well is stopped at this point. A piece of eight inch casing is cut just long enough to reach from the top of the second stratum to the top of the first stratum. This piece of casing is dropped down in the eight-inch hole. The larger twelve-inch casing is then tacked up until its lower end is just below the level of the first water-bearing stratum, thus leaving access for the water into the well between the upper end of the eight inch casing and the upper end of the twelve-inch casing, and also through the lower end of the eight inch casing which is embedded in the second stratum.

Digging the Pit. A pit is then dug around the casing of sufficient size to allow the installation of the character of pump desired down to the water-level. At the water-level the twelve-inch casing is cut and the pump installed, using the casing below as a suction and reducing from the pump to the regular twelve-inch casing which acts as the discharge. This type of well has not been thoroughly tested here yet. The only one now put down is that of Dr. O. G. Osborn, four miles east of town, and the pump is not yet installed, so it is impossible to say what the well will deliver. There are now some fifteen well-rigs in the valley all with contracts ahead, one firm having as many as ten contracts to fulfil. As experience in this field is enlarged, better and cheaper wells are possible.

DATE SET FOR THE VALLEY PRESBYTERY

Roswell Humane Society Elects Officers For the Year.

Roswell, N. M., Feb. 24.—The Pecos Valley presbytery of the First Presbyterian church will meet here the 20th of April, continuing over three days.

W. M. Shelby & Sons, owners of the Las Lunas farm, having 100 acres, make a specialty of chickens and have received 10 fine prize winning White Leghorns from St. Louis. They have ordered a carload of young apple trees which they will set out. Mr. Shelby is president of a shoe company of St. Louis.

The Retailers and Merchants of Roswell have organized an association with Sam S. Toms as secretary. Clark Dille of the Dille Furniture company is president.

The Roswell Humane society has elected the following officers this week: President, Mrs. John T. McClure; vice president, large W. E. Rogers; secretary, Mrs. J. J. Jaffa; vice president, Mrs. J. G. W. Winters; vice president, Mrs. W. C. Burruss; vice president, Mrs. W. M. Hodges; secretary, N. O. Shanks; treasurer, Mrs. Maude B. Keller; board of directors, including the officers, G. T. Veal, Mrs. G. E. Carson, J. M. Harvey, and J. R. Kirby; and one to be supplied by the will in all likelihood be a native citizen so as to take care of the Chihuahua district.

EL PASOANS AT THE UNIVERSITY OF TEXAS

Austin, Texas, Feb. 22.—Edwin M. Freeman, 22, is a member of the valedictorian class of the El Paso high school, last year won a scholarship of the university of Texas as the best individual high school debator in the state. He is a member of the Phi Kappa Phi national college fraternities. David Mulcahy, of El Paso, was appointed chairman of the refreshment committee for the annual reception given by the freshmen of the university. Norman Morrison, also of El Paso, has been elected to membership in the Phi Kappa Phi national college fraternities. A standing room crowd split its sides with laughter in the auditorium of the university when the curtain club presented "The Fan," translated by the Italian, Thornton Hardie, of El Paso, was a participant.

Roswell, N. M., Feb. 22.—The university of Texas is almost unanimous in the support of Gov. Woodrow Wilson for the presidency of the United States and his most enthusiastic supporters have organized themselves into the Woodrow Wilson club. Thornton Hardie, of El Paso, is chairman of the press committee.



This Car Costs \$1500 What More Will \$1800 Get You?

YOU must judge values by comparing values. A dollar article from one man is worth only one dollar from another—not a dollar and a half. Smith, who pays a higher rent, operates extravagantly, and does little business, must take care of his "overheads" by inflating values. Therefore, he tucks an extra ten to twenty per cent. on everything he sells. But Jones, who sells the same goods, but sells more of them, and does not have the additional rents and numerous other overhead charges to take care of, sells you his standard goods minus this ten to twenty per cent. inflation. Jones is the man to deal with.

Apply this to automobiles. The car shown here is our famous forty-five horsepower touring car. It is priced at \$1500. This car has everything of any practical value that any \$1800 or \$2000 car in America has.

Do you question this? Then run over these facts:—

First of all, this car has a powerful forty-five horsepower motor. It seats five large passengers. The operating levers are in the center—where they should be. The selective transmission is fitted with the finest F & S annular bearings—the best made. It has a full floating rear axle. Both front and rear axles are fitted with the famous Timken bearings. The pressed steel frame has a double drop. The magnetos is a Bosch. The tires are big. The body is finished in deep rich Brewster green trimmed with heavy nickel plate. The lamps are dead black trimmed with nickel. Self-starter only \$20 extra.

It is a magnificent, strong, powerful car. It has all the beauty and comfort that is possible to get in a popular priced car. You cannot find a weakness or a flaw. It is sound and thorough. Neither the chassis nor body could be improved upon. It is

made of the best material on the market by the most modern methods.

Can you pick any \$1800 or \$2000 car that gives you more than this? To be sure, you might get a few inches longer wheel base, or a little larger wheels, but what does that amount to? And at that, you will find the car with a little larger wheel base has a much smaller motor. For all of which you are asked to pay anywhere from \$300 to \$500 extra.

We repeat, there is not an \$1800 car made that offers you any more than this one for \$1500.

Why? It is made by the largest factory in the world. These enormous plants, by reason of their huge operations, can buy material, handle material, make parts, and sell cars at smaller costs than anybody else in the business. We make 25,000 cars a year. The average standard plant turns out about 5000. That's the difference.

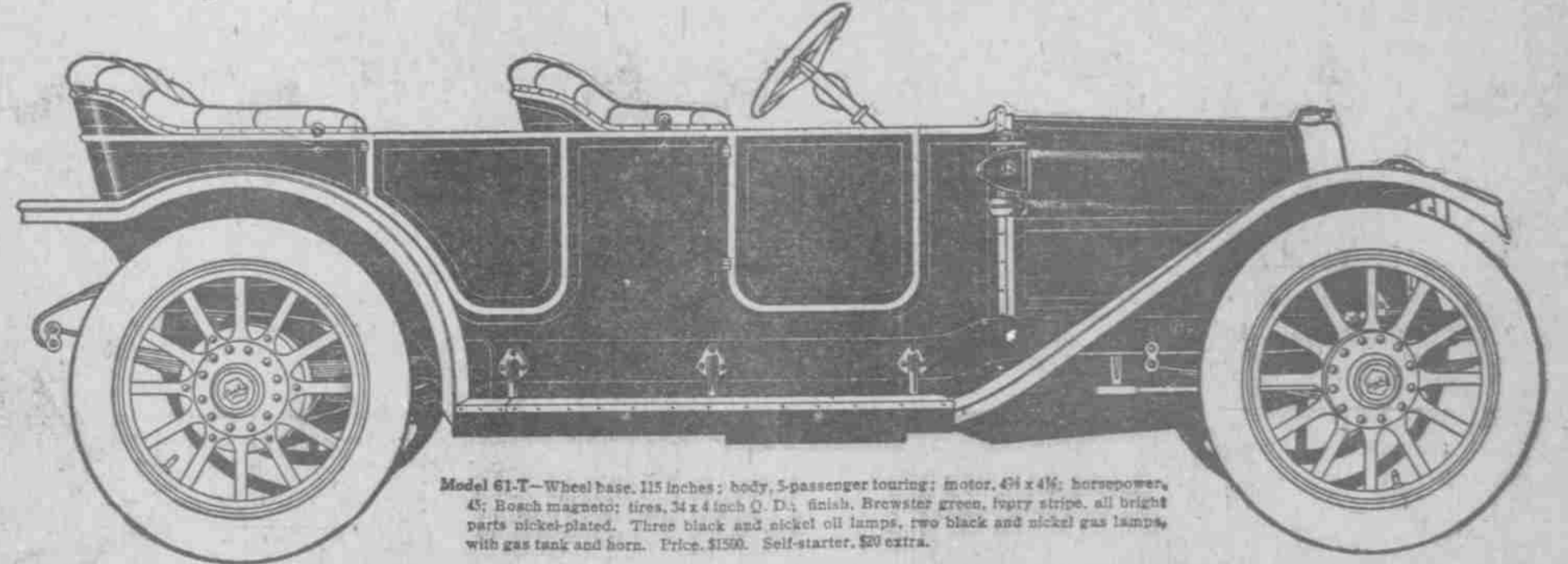
Right now we are shipping eighty cars a day. In round figures this is a business of about \$72,000.00 a day. In a short time we will be shipping 150 cars a day. This is a business of \$135,000.00 a day. Would these thousands and thousands of shrewd people select the Overland in preference to all others if we did not give them more car and a better car for less money? There are over 2000 Overland dealers.

Let our dealer in this city (name and address below) take you out in this car and give you a thorough demonstration. Let him show you the unusual value. See this car, then see some of the higher priced cars. This will prove to your own satisfaction that our \$1500 car will give you all the power, speed, comfort, service and wear that you can get in any \$1800 car made.

Phone our dealer for a demonstration at once.

The Willys-Overland Company, Toledo, Ohio.

Christy Automobile Co., Distributors 615 N. Campbell St. Geol. L. Fisher, Manager



Model 61-T—Wheel base, 115 inches; body, 5-passenger touring; motor, 64 x 4 1/2; horsepower, 45; Bosch magnetos; tires, 34 x 4 inch D. D. finish. Brewster green, fipry stripe, all bright parts nickel-plated. Three black and nickel oil lamps, two black and nickel gas lamps, with gas tank and horn. Price, \$1500. Self-starter, \$20 extra.

DEMING AND MIMBRES VALLEY

O'REILLY RETURNS TO DEMING AND MIMBRES VALLEY AFTER TEN YEARS AND TELLS OF THE MARVELOUS CHANGES MADE

Deming, N. M., Feb. 22.—J. H. O'Reilly, of Albuquerque, N. M., vice president of the Occidental Life Insurance company, has been in Deming for several days investigating the valley for the purpose of advising his company as to the advisability of making loans on farms lands in this vicinity. Mr. O'Reilly states that without question there has been the most phenomenal development in the Mimbres valley of any portion of New Mexico. He says that he will recommend Mimbres valley farms to his company as first class security for loans.

"I was here 10 years ago," said Mr. O'Reilly, "and drove all over this country from the upper end of the Mimbres to the Mexican line and from Lewis flat to the western portion of the county, and in those years it was a ranch house to another. Such a thing as farming was unheard of the entire valley was given over to range cattle. I have made several trips out of Deming in the past few days over your splendid roads and have seen an agricultural development that has astounded me. Without the witness of my own senses I would not have believed such development possible. Your immense pumping plants, orchards, gardens and farms occupy space which but a few years ago was given over to the cañons and mesquite. I am familiar with all parts of New Mexico, and I can say without fear of overstatement that development in this valley has exceeded in rapidity that of any section of the state. I have been impressed also with the superior class of farmers who are now operating in the Mimbres valley. Conditions are such as to encourage scientific farming, and have doubtless served to at-

tract just this character of men. This valley, in my opinion, is destined to become one of the choicest garden spots of New Mexico. I shall recommend warmly to the Occidental Life Insurance company the advisability of entering this field with money to loan for actual development work."

Boys Motor and Pump O. H. Cooper has just purchased a 20 horsepower electric motor and a No. 6 turbine pump for equipping a well on his desert claim three and a half miles southwest of Deming. He has 20 acres of land broken and ready for water and is having another 40 acres put in proper condition.

Howard Dudley, of Los Angeles, Cal., is in Deming on business.

Mrs. J. H. Rogers, of Portage, Wis., is visiting her daughter, Mrs. A. W. Pollard of this place.

Frank DeLaunay, who has been employed here as assistant in the Southern Pacific roadmaster's office, has taken a position in Benson, Ariz., as chief car repairer and has gone to Benson to live.

The remains of E. C. Freeman, who was killed at Mocolon the first of the week in a holdup, were shipped through here en route to his old home in Pasadena, Cal.

Mr. and Mrs. George R. Weed have returned to their home in Brooklyn, N. Y., after spending several days visiting their old friends, Thomas and Richard Hudson.

John Stein, manager of the western division of the Harvey house system,

spent several days in Deming this week on business.

R. C. Edwards has returned from a three weeks' trip to the Mimbres Hot Springs.

V. S. Hillis and Miss Anna J. Chase have returned from two weeks' trip to Los Angeles, Pasadena and other California points.

Charles Hutchinson, route agent for the Wells Fargo Express company, is here on business.

William Archer, well expert for the Santa Fe railroad, is in Deming on business.

Plans are being prepared for the construction of a \$50,000 office building at San Antonio.

Dr. Warnock, dentist, set teeth, \$10.

FORTY WINKS IN COURT.

A lawyer, noticing that the court had gone to sleep, stopped short in the middle of his speech with the sudden silence woke the judges and the lawyer gravely resumed: "As I remarked yesterday, my lords—"

The Battle Post.

The "bottle post" is an old institution on the south coast of Ireland. Letters are put into corked bottles, which are wafted by the wind to the opposite coast. They also contain a cigar or other trifle to induce the finder to deliver the letter as addressed.

Says to tell Your Friends If You Have Been Helped

DOES NOT ASK FOR LETTERS OF RECOMMENDATION.

People who have been cured of stomach trouble by the use of Fowler's Indigestion and Stomach Waters are asked to tell their friends about it. There are many people in this city who have done this already but there are still many stomach sufferers. It is this honest dealer that has caused a demand not known before by any medicine.

Fowler's Indigestion and Stomach Waters are remarkable in their cures. These little waters are convenient to take and have no bad taste or medicinal quality. They are chewed up and swallowed quickly, assimilating with the stomach juices and bringing instant relief. They cure indigestion, dyspepsia, gas, constipation, carburium, cramps, stomach catarrh. Every box is sold with an iron bound guarantee that full purchase price will be refunded, the druggist without question. They are on sale by all first class druggists. Trial size can be secured by writing Harry L. Fowler, San Antonio, Texas, and enclosing 10 cents in stamps.

FACE SWOLLEN ITCHED TERRIBLY

Pimples All Over It. Used Cuticura Soap and Ointment. Disfigurement Disappeared as If by Magic. Now Entirely Well.

18 W. 112th St., New York, N. Y.—

"About a year ago, after being shaved, I noticed a little pimple on my face, which commenced to itch me terribly. I think I must have scratched it when asleep. My face got swollen, and soon after many other pimples also began to appear, so that they were all over my face. I tried all kinds of medicine and salves, but without any effect. Noticing the advertisement of Cuticura Soap and Ointment in the paper so many times, I decided to get some. In a little while the itching stopped entirely and the swelling went down. I kept on using them and it seemed as if all my disfigurement disappeared as if by magic. In all it took about one month to get rid of it. Now I am entirely well, thanks to the wonderful Cuticura Soap and Ointment." (Signed) Louis Tauscheid, Nov. 11, 1911.

DAWDRAFF FOR 8 YEARS Kept Scratching and Making Sores.

263 Southampton St., Buffalo, N. Y.—

"For the past eight years I have been troubled with dandruff and scaly places on the scalp, making sores. I had tried a great number of remedies but to no avail. Now my scalp is perfectly clear, after using one box of Cuticura Ointment and two cakes of Cuticura Soap." (Signed) Miss L. Frushan, Nov. 24, 1911.

Cuticura Soap and Ointment are sold everywhere. Sample of each mailed free, with 30c. book. Address, "Cuticura," Dept. T, Boston. Tendered men should shave with Cuticura Soap Shaving Stick.

DAY AND NIGHT SCHOOL Bookkeeping, Stenography, English, Spelling. DRAUGHON'S BUSINESS COLLEGE, R. F. Davis, Manager, Phone 1841, Front Bldg.

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NIGHT SCHOOL Ask any business man or educator in El Paso as to the best school for your son or daughter. INTERNATIONAL BUSINESS COLLEGE. J. F. Sullivan, President.