

5621

COOPERATIVE EXTENSION WORK  
IN  
AGRICULTURE AND HOME ECONOMICS  
STATE OF ARIZONA

XXXXXX  
SNOWFLAKE  
holbrook

UNIVERSITY OF ARIZONA  
COLLEGE OF AGRICULTURE  
U. S. DEPARTMENT OF AGRICULTURE  
AND NAVAJO COUNTY COOPERATING

AGRICULTURAL EXTENSION SERVICE  
HOME DEMONSTRATION WORK  
COUNTY AGENT WORK

May 15, 1936

*Mr. Harold Schwalen*

Mr. Harold Schwalen  
Associate Agricultural Engineer  
University of Arizona  
Tucson, Arizona

Dear Mr. Schwalen:

I am sending some information about three wells that have already been drilled by the Joseph City Irrigation District. This information is not complete as the well driller, Mr. Schwalen, does not keep a log on his wells but has promised that he will in the future.

I have sent you a sample of the water from well No. 1 and will send samples from wells 2 and 3 tomorrow. Also, I will return in a few days the bulletin that you sent me.

These people are prepared and already have contracted for the drilling of approximately 15 wells. Just why they decided on the location that they are using I do not know. I believe it was partly due to the fact that it was about the only place along the river where they could get water rights and trespass privileges from a land owner. There is a certain amount of water on the north side of the river at Joseph City but it does not come within 25 or 30 feet of the surface and from indications the water level drops quite rapidly when power pumps are used. The well driller tells me that on the south side of the river across from Joseph City the Coconino Sandstone layer thins down to 100 or 150 feet and they do not think that they would get a very great volume of water in that locality.

The thing that I am now interested in trying to convince them that they should do is that 3 or 4 wells should be drilled within a diameter of 20 or 30 feet. The reason that I suggest this is that I am afraid that the artesian flow will sooner or later quit, and it is my belief that if this should occur they would then sink a sump connecting the adjacent drillings

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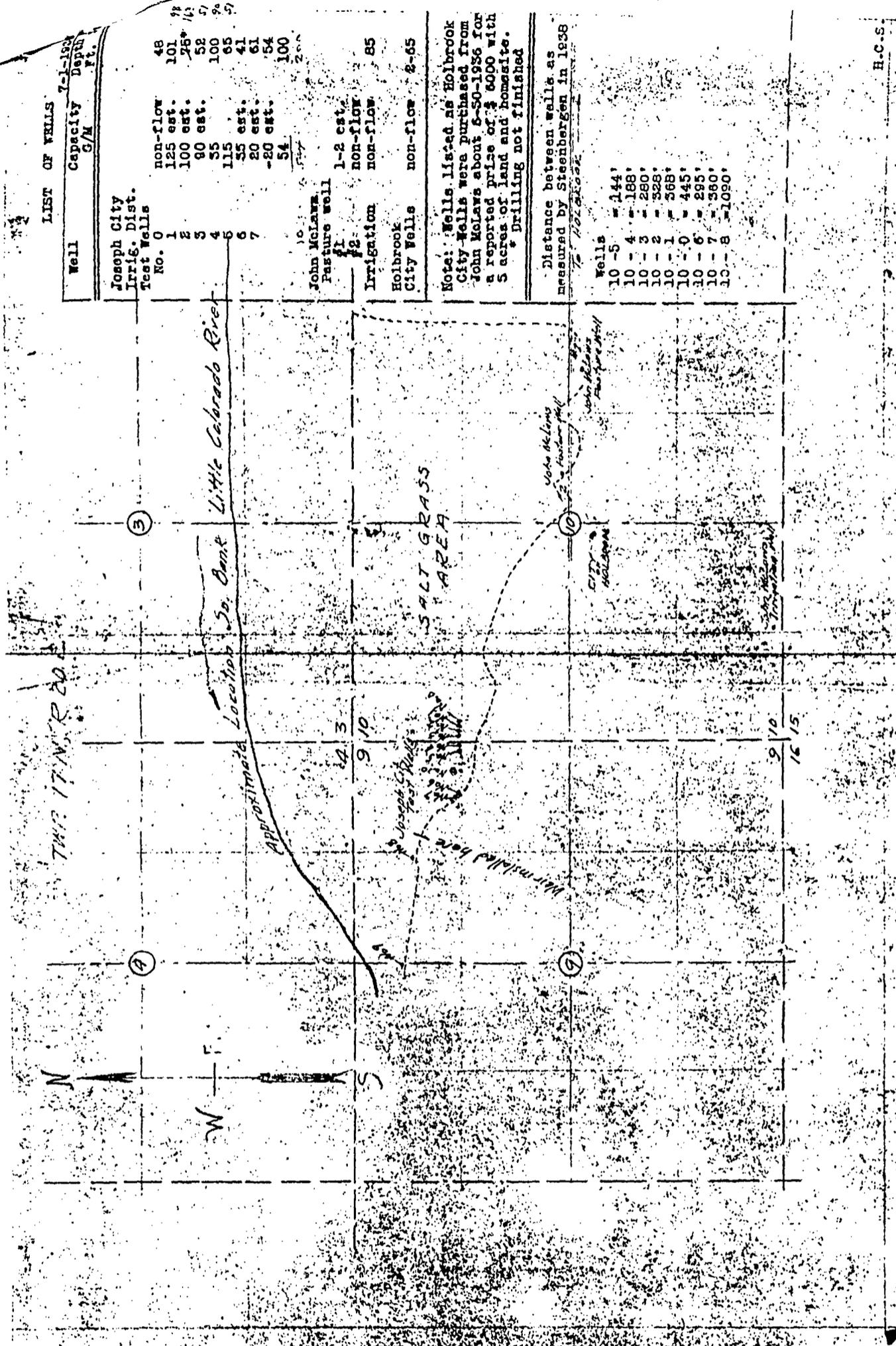
and use pump machinery to deliver water. The McLaws well that the City of Holbrook is contemplating buying is located on Section 2 and consists of two 6 inch drillings 14 feet apart connected by such a sump. I am informed that this well with a large gasoline pump has delivered 1800 gallons a minute for periods up to 8 hours without affecting the water level. This is not an artesian flow, but it comes to within about 8 feet of the surface. This is one of the reasons why I was in hopes that you would be able to come up and talk to these people about their problem. However, I guess that little can be done in view of the fact that they will probably go their own gait anyway.

I sincerely thank you for your interest and help in this matter and hope that you will find it possible to come up and visit us in the near future.

Sincerely yours,

  
John McLernon  
County Agricultural Agent

encl.  
jmcl/ws



LIST OF WELLS

| Well                                | Capacity G/M | Depth Ft. |
|-------------------------------------|--------------|-----------|
| Joseph City Irrig. Dist. Test Wells |              |           |
| No. 0                               | non-flow     | 48        |
| 1                                   | 125 est.     | 101       |
| 2                                   | 100 est.     | 76*       |
| 3                                   | 90 est.      | 52        |
| 4                                   | 55           | 100       |
| 6                                   | 115          | 65        |
| 7                                   | 35 est.      | 41        |
|                                     | 20 est.      | 61        |
|                                     | -20 est.     | 54        |
|                                     | 54           | 100       |

John McLara  
 Pasture well  
 1-2 est.  
 non-flow

Irrigation  
 non-flow 85

Holbrook  
 City Wells  
 non-flow 2-65

Note: Wells listed as Holbrook City Wells were purchased from John McLara about 6-30-1936 for a reported price of \$ 6000 with 5 acres of land and homestead. \* Drilling not finished.

Distance between wells as measured by Steenbergen in 1938

| Wells | Distance |
|-------|----------|
| 10-5  | = 144'   |
| 10-4  | = 188'   |
| 10-3  | = 280'   |
| 10-2  | = 328'   |
| 10-1  | = 368'   |
| 10-0  | = 445'   |
| 10-6  | = 295'   |
| 10-7  | = 380'   |
| 10-8  | = 1090'  |

H.C.S.

Fidi 28-2  
A 2-563  
Schwalen Coll.  
UA Spl Coll.