Valuable Suggestions by Engineer On Harney Valley Irrigation Plans

Portland, Oregon.

Mr. William Farre, Burns, Oregon. My dear Mr. Farre:

I have been very much interested in reading in the Burns papers of the the possibilities of pumping water for irrigation. Through the work of our firm as Engineers for the Harney Valley Irrigation District I bee me very familiar with the situayour valley and have given see agricultural development beyond present expectations. This will come about through irrigation and through the adaptation of farm crops which will offer the greatest return to the producer.

On the subject of pumping water for irrigation, I have certain ideas have not seen expressed in previous discussions of the subject. ground storage reservoir, it seems am writing you this letter not as a final opinion, but as a starting be replenished at the rate the water part of which had to be discarded, point for additionaal discussion and is removed for surface irrigation sewed about one and one-half tons study thta may prove fruitful and of purposes. Under the conditions, I of oats on 38 acres of land. 104 benefit to your valley.

Under-flow not Unlimited

ject there have been statements giving a very large acreage in Harney Valley subject to reclamation by pumping water. 200,000 acres was | first wells developed would undoubt- the 38 acre piece by a str the figure quoted in one instance. I edly hold up very well and give four feet wide Mr. Aus am not prepared to say whether this promise of permanent success but one sack of recleaned or figure is likely to be correct or incor- as the time came when a large solid 127 pounds and follow rect, nor to place any definite limit area of land was completely develop- with a spiketooth harry on the acreage which may be irri- ed with a well on every 80 or 160 the piece lengthway gated by pumping, but there is a acres and all these wells being pump- From these two s limit to this acreage probably very ed for irrigation, the probabilities 128 bushels and h much less than the area having soil the that the entire water table would frost damage this conditions and surface layout other- be drawn down to such an extent easily yielded 50 bush

Valley is the bed of an ancient lake, land in the Harney Valley can be er supplies for freigation in ample great advantage to be derived from quantities He around the edges of the work of your Committee is the Harney Valley rather than out through the thorough, unprejudiced toward the middle. Of course, there study that you are able to make, and are local conditions which will mod- the working out of a definite proify this but is a general statement gram, making use of the experience it can not be controverted.

The water bearing formations throughout the Harney Valley have been filled up to the present ground | ment of underground waters ar any water level through centuries of sur- large scale, we need a revision and Isco rainfall and sub-surface flow. A few wells, mostly shallow, have the subject. We have a fairly combeen put down but in the aggregate prebenaive code governing the nac very little water has been taken in of surface waters for trigation and the past from this underground res- Utto may be construct to also apply ervolr. This is, however, no evi- to undeground waters the in howdence that the underground reservoir ever, clearly not adapted to the adis inexhaustible. The underground ministration of underground water water occupies the spaces between developments and some revision or the soil particles and it must be re- additions to our laws should be numbered that this space is only a made.. Traction of the entire soil volume. In very few cases will the porous space putting down a well on his property exceed 40 per cent and ordinarily it for domestic purposes. The ues of is very much less. If the porous water for drinking, cooking sanitary Lois Brown, Edgar Dent, Alberta space in an underground formation purposes, and the watering of stock Graves, Sidney Hotchkiss, Frances averaged 20 per cent and this water is paramount and no one should be King, Naomi Meon, Marian McCulwere removen for surface irrigation deprived of this. The amount of lough Helene Loggan, Ruby Poujade, stock men to get the subject befree city. The Howards are well known the water table would be reduced 10 however, negligible compared to Georgia Simmons, Anna Varian and for the stock interests of this state eided and have many friends who are days ending Oct. 31 totaled .95 feet every year unless some addition-

al water were supplied. It its clear that the extent to which irrigation one and three-fourth miles insid ; of October 23rd, 1924, pumping may be successfully un- the Meander line on the Mall-eur dertaken depends entirely upon the Bird Reserve, so he persuaded the possibility of the underground source

being replenished from year to year. The rate of undergr und flow of water is commonly very much exagwork of your Committee, studying gerated. Water does not flow ordinarily in sub-surface channels or seams but moves slowly between the open lake bed surrounded by tu soil particles at a rate which depends about four to six feet in the slope but is ordinarily only a mat were produced proves ter of inches or a very few feet a that the lake bed is very i close study to the irrigation pump- day. Under the conditions in the ing very similar to that of Tule Lake ing possibilities. I believe that the Harney Valley, the underground sup-Valley will in the course ply would be replenished to a certain and from the high areas East and ure. west of the Valley. The underground and from the absorption through the beds of streams. After you sum up all of these additions to the under- cleaned or graded, which he seriously doubt whether there is any bushels of oats were threshed fro portion of the Harney Valley where In various discussions of the sub- complete irrigation of the surface estimates that a temperature of area would not result in drawing degrees on the 20 and 21 of A down the underground water level at | reduced the yield about 50 pe a rapid rate. For a given section the that none of these wells could be The total yield secure From the geological standpoint pumped profitably. There is no forty five acres threshed there is no roubt that the Harney doubt that a very large total area of bushels of outs and 60 bush

the predecessor of Malheur Lake, irrigated by wells but it is very The formations in the Valley down doubtful whether the development PAST MATRONS to a great depth were deposited un- of any large solid body in one part der water in the bed of this lake. of the Valley would be attended by Around the edges of the Valley the success. From present information lake bed formations are much coar- it is impossible to say how closely per than those out in the middle of walls might be spaced or what perthe Valley around Matheur Lake, contage of the area could be furnish-The reason for this is evident. The, od with a permanent supply. This ancient Silvies River, Polson Crook, must be a subject fr later javesting-Prater Creek, Coffee Pot Creek, Cow | tion and experiment. To irrigate Creek and others brought in to the | 649 acres in every section is not likelake a combination of grayel, sand, by to be possible. It might, however, and silk. The coarser and heavier he possible to develop 320 or 150 particles carried by these streams or 80 acres out of every section by were deposited where they first pumping and have the wells hold up entered the take, or near the foot- permanently with no great reduction hills. The finer particals were car- in the water table. I do not wish to ried by currents and wave action discourage the possibilities of well farther out into the lake, and the development in liarney Valley. I very finest remained suspended believe these possibilities are very in the water a long time and final- great and that ultimately you will ly came to rest in the midle of the see many thousands of acres added lake or out in the vicinity of the to your irrigable area in this manexisting Malheur Lake. The con- ner. I simply want to point out the firmation of this is found in the possibility of over-doing the wel. fact that the sub-surface formation development and the limiting condiin the Harney Valley are much coars- tions which govern. It is possible er around the edges of the Valley for the Harney Valley to profit from than out in the middle. Since it is the unfortunate experiences in other easier to get water in large quanti- localities where the first wells provties from wells driven in gravei, ed a success and were followed by a sand, or similar formations, it may great wave of well drilling activity be expected that the more favorable, which finally resulted in disaster locations for developing ground wat- to everybody. I helieve that the

> of others. The Need of Logislation

Prior to undertaking the developimprovement of our p. mout I wa on

No man should be prohibited from

(Continued on page five)

MALHEUR LAKE BED PROVES TO BE VERY PRODUCTIVE

BURNS. HARNEY COUNTY,

Due to fire hazard it was in possible for Mr. Ausmus to take a steam threshing outfit to his farm about writer to take the Gas rig owned by the Harney Branch Experiment ! tation down and thresh out his crop of

the splendid crops produced on t degree by the inflow foom the moun- in the same manner during this dry tains to the North and to the South season would have resulted in fail-

Mr. Ausmus did not take the trouwater supply would also pe replea- bis to plow or even disc the land, ished from the winter precipitation but simply hitched onto his drill, which was more or less of a wreck, and using oats that had not bee very unlikely that it could possibly hardly feed through the drill and this piece of land and the write

AND PATRONS PETER

One of the most impressive guil Score of Berns Chapter, No. 40 O. E. E. har Monday night when the Past Matrons and Past Patrons of the fedge were the guests of house, The relicitations extended were of a character to impress the guests and make them realize the real esteem of an Order for those who have faithfully performed their duties and givon the tenants of the Order their first consideration. The ceremony showed careful preparation and that those taking part felt a sincere regard for the Order and what it stands for.

The program of the evening began with a sumptuous supper prepared and served at 6:30 by the committee. Each Past Matron was escorted to her place at the tables by the Patron who had served with her. While this could not be carried out literally because of death and absence breaking the ranks, it was surprising to find how many of the Matrons and Patrons who served together present. It was a very happy occasion, even though it brought memories of past sorrows as well

Pollowing the session of the Chapter business the committee presented other market this restriction does a one-act comedy that was well pro- not apply. duced and staged. It brought much of Burns because of its ability to entertain and interest its members,

H. C. H. S.

The following students are classed as Henor Students having no untor in all subjects taken:

John Biggs, Alfred Brown, Dan Brown, Roy Brown, Robert Brown, Bleanor Welcome.

TING STOCKMEN

tive of Stockgrowers ion Signs up Local lucers to Plan.

for many years brand Portland stock the stockmen and disderly Marketing Plan" Without exd cattle growers signoval of the plan after d been explained to

> marketing plan has sera Association for ars, perhaps longer. a test in other secoven an entire suc-California, where the benefit of both tock yards, packers, and all concerned. regulation of event a conis force the

confronting the stockman is best known to his seighbor. The marbettles agent could not know of these circumstances and when he notifies he stockmen of a certain locality that as many loads of stuff are need ed at a certain time, the local organmillen will make up the loads, distributing the stuff equitably among he growers in accordance to their ready. Their shillty to held on pas- ors Club on Thursday afternoon at to Meggle Delle and they had made ture or feed with less disadvantage han some other, etc.

in order to make this plan effeclive it is necessary to get practically all the producers in this territory to ign an agreement to ship under the direction of the marketing agent, thus preventing the congestion mentioned before. This agreement is merely to the effect that the producer will notify the marketing agent at least 30 days before shipment of the kind and number of stock to go and be governed by his direction.

This agreement does not prevent the producer from selling his stock to any one at any time, but does bind him to notify the marketing agent of such sale and if it is to be marketed in this territory the buyer must take dulivery as directed by the agent. If the stock are to be taken to some

Mr. Snow explained that the pack- Brown on Novmber 20. praise from the guests present and ers and commission men are willing was an indication of how thorough to pay a good price for stock but CHANGE IN MANAGEMENT the committees and members are desire it regulated. They are just with what they undertake in the as anxious to stabilize the market Eastern Star lodge and plainly shows as the producr and will give this the secret of the popularity of the plan their hearty support and cooper-Order among the fraternal societies ation. Under present plans the commission man who buys at a top price A. Lakness as general manager of periment Station by months from on the market this morning with the the Central Oregon Telephone Co. January 1, 1924 to September 30. expectation of disposing later to a the change to be effective from to- 1924. gested market tomorrow morning here from Mosier the latter part of and a competitor getting an advant- this week to be reany to assume the age of a slump and thus able to turn responsibility. He has secured a

> the approval and backing of the Cattie & Horse Raisers Association of Mr. anh Mrs. W. B. Howard ann

shipped to the Portland market. The stockmen have confidence in this organization and are readily taking DERLY MARKETING up the proposition and signing the agreement.

Mr. Snow came to Burns unheralded and therefore was unable to meet many of the stock men, but all who were present at a meeting held at the coirt house on Wednesday afternoon signed up agreements and are convinced it is the best move of this character ever made by the stock men of Oregon. Mr. Snow has arits stockmen readers and friends may avail themselves of the opportunity to better their marketing posibilities and not only help themelves but their neighbor as well, for it will possibly be the means of saving him from going in on a congested market and selling at a loss.

AUSTIN GOODMAN FUND MEMORIAL

In appointing committees to canvass their respective neighborhood for the Austin Goodman memorial fund three precincts were omitted in our last issue. These were Warm Springs, where Peter Oblague and Al Cote are the committee; Curry. with W. L. Best and Albert Oakerman as committeemen, and Egli where Link Hutton and Peter Peterson are appointed.

Even though people have been apointed to look after gathering the ids in each community with a of completing the canvass by giving time when an organiziil be effected to make suitlisposition of the fund. The es-Herald has received \$10 more ring the week, thus bringing the tal contributed through this paper p to \$179.50. Those contributing PIONEER BURIED AT

Mr. and Mrs. W. F. Oltman \$2.50 Mr. and Mrs. Chas. Brittingham 2.50

different districts.

MOTHERS CLUB HAS

(Contributed)

which Mrs. Russell Smith joined as onely until her death and he still hostess, was one of the delightful remained there up to the time of his and entertaining events of the fall death. Mr. Pirie had been in poor in Hallowe'en effects and the en- ter as looking after him at the time tire surroundings conformed with of his last illness. However the was the Hallowe'en spirit.

rendered following the business ses- before he died and on Saturday sion which included a saxaphone solo morning had risen as usual and gone by Mrs. Carrico; vocal selection by out to do his chores, returning to Mrs. Olsen; plano solo by Mrs. Har- his breakfast he complained of not ris. and vocal solo by Mrs. Weitten- feeling well when his sister suggesthiller with Mrs. Carrico assisting ed the doctor be called. Mr. Pirie with a violin obligato. All the selec- attempted to eat some breakfast but tions were accompanied by Mrs. Har- partook of but little and retired to ris on the piano and each number his bed and expired almost immedwas roundly applauded, the per- lately upon lying down. formers responding with encores.

the guests departed and the hostesses. He is said not to have an enemy in were warmly thanked for a delight- all this country. ful afternoon. The next meeting He is survived by his sister, Mrs.

The Times-Herald is informed that there has been arrangements made whereby A. H. Graves will succeed J. cipitation at the Harcov Branch Exretailer at a margin, may find a con- day. Mr. Graves and his son arrived excused abences nor tardy marks his stuff to the retailer at a less cost lease on the Mrs. Eather Schwartg and having an average of 90 or bet- and still make the margin he expects. residence and will have his family The orderly marketing plan has in Burns within a short time.

Oregon and that association is her brother, Ray Shuck, arriveh here spending its own money and sending Thusrday evening from California its own salaried man out among the and are guests of friends in this Wilbur Poujade. Geraldine Siler, them. They are doing a good thing in this city where they formerly re-

AMERICAN LEGION TO OBSERVE ARMISTICE DAY

Suitable Program Rendered at Liberty Theater Afternoon; Athletics and Dance.

Harney County Post American Legion, has declosed to arrange for a program to be renedred to Armisice Day, Nov. 11. The boys have arranged for this program to be held in the Liberty Theater in the afternoon at 2 o'clock and have also secured the Tonawama for a dance on that night with Dewcy Robinson to play for it.

The program has been tentatively arranged and the following is the

outline:	
Invocation	Rev. Harris
America	By Assembly
Remarks	Commander Locher
Song	Public School Pupils
Address	Patrick Donegan
	Mrs. Carrico
	Rev. Stuart

Following the program at the Liberty there will be some athletic contests on the street for the boys and girls, provided the weather will permit. The athletic program will in-

100 yard foot race, free for all 50 yard race, free for all 75 yard race for boys under 12

50 yard race for boys under 12 50 yard race for girls 25 yard race for girls

Marathon, length of Main street Bicycle race, length of Main street Suitable prizes will be awarded the winners of these contests.

It is expected that the service men from all over the county will be in Burns for this occasion.

HARNEY TUESDAY

James Pirle, the respected pioneer Funds for this purpose may be creek last Saturday morning, was cent directly to either bank in Burns buried at Harney on Tuesday afterin the name of the Austin Goodman | noon, Rev. Eugene Howd of the Bap-Memorial Pand without coming tist church conducting the service through this office or given directly from the Community church. Intera the several committeen on in the ment was made in the Harney cometery beside his wife who died in 1914.

James Pfrie was born in Scotland INTERESTING MEETING June 6, 1848. It is not known when he came across to the United States. but he resided in Harney valley for The regular meeting of the Moth- 10 years. He was married in 1891 the home of Mrs. W. M. Sutton, in their home on Cow creek continuseason. The house was decorated health for several years and his sisnot confined to his home as he was A very interesting program was out looking after his affairs the day

Mr. Pirle was a man highly re-Refreshments were served before specied by his wide acquaintance.

will be at the home of Mrs. Claude Main, who was with him at the time of his death, also a half brother, John Newlands, of Portland, who came up to attend the funeral; also OF TELEPHONE LINES one sister in Scattle, two sisters and one brother in Scotland.

The following is the monthly pre-

312.94	0.10
anuary	0.45
ehruary	1.27
farch	18.00
April	-20
Any	.0.0
une	- 92.0
[n]v	.00
August	18
September	21
-	

Total inches The ten year normal for the same period is 5.74 inches.

The showers during the last few