



State of Idaho  
DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190  
FAX (208) 334-2348

CECIL D. ANDRUS  
GOVERNOR

R. KEITH HIGGINSON  
DIRECTOR

October 5, 1994

TO: Attached Distribution List

RE: Testing the Terteling Windssock Well

Dear Interested Party:

Based on our meeting at Flora Company on October 3, ingredients for a well test in the water district are now being assembled. Several participants added to this process and thanks are extended to everyone involved for your time and interest.

Well testing will occur as a result of requests made by the Tertelings to establish conditions under which their windssock well can be used during Watermaster regulation (water shortage) periods. Also, the Idaho Department of Water Resources (IDWR) is interested in improving the knowledge of aquifer dynamics to assist in water management decisions. This particular test follows from consent by Flora Company to allow aquifer testing even though Flora water rights are not fully satisfied.

The senior water user is not obligated to allow this procedure under current conditions, and consent by Flora Company does not obligate it to future tests nor will any benchmarks established in the test, e.g. approximately seven psi at the pit well, imply that Flora Company water rights are diminished in any manner. The same applies to the Edwards water right, the next senior user.

The purpose of the test is to provide reliable data in an effort to improve management of the limited geothermal resource. We hope to expand the horizons of water delivery by the Watermaster in a quantifiable and reliable process that includes your participation to the extent that you are interested.

This letter describes the details of the test. The experiment represents a combination of ideas suggested by a number of people within the district, the Watermaster and IDWR. Testing is limited to the Terteling well since it is premature to experiment with the golf course system at this time.

Test Parameters

1. The test will begin on Thursday morning, October 6, and is designed to run through Friday afternoon, October 14, 1994. Some variation from these dates might occur if unforeseen problems arise.
2. Involved wells will include those owned by Flora Company (shed and pit wells), Edwards (one well) and Terteling (windsock well).
3. While Flora and Edwards wells are operating at a constant discharge, the Terteling well will be activated. All of these wells will be used at a constant rate to the extent that circumstances allow because deviation from constant use might adversely impact the results.
4. Water levels at Flora wells will be monitored at the shed well by a combination of data from a mercury manometer provided and installed by the Watermaster, a pressure transmitter obtained and installed by IDWR, and a pressure gauge already installed by the owner. Additionally, pressure readings will be recorded from the existing gauge installed by the owner at the pit or triangle well. These wells also have flowmeters installed by the owner.
5. The Edwards well now has a functioning datalogger to record impacts of the test. Possibly, a mercury manometer will be installed by IDWR for additional data collection. Existing manual instruments remain useful if needed at this well. The owner has provided all instruments except the possible manometer to be used at this site.
6. Discharge at the Terteling well will be measured by a flowmeter installed by the owner and calibrated by the consultant, Ed Squires. Other equipment provided by the owner already functions at the windsock well if needed.
7. Water provided to the Terteling well must be beneficially used under the limits of the appropriate water right, and such use will be recorded by the Watermaster as water delivered under the regulatory period in the district. Delivery costs will be assessed to the well owner for this water use as would any other water delivery made by the Watermaster.
8. If water levels decline at Flora wells to approximately 4.6 psi at the shed well or 7.0 psi at the pit well, the test will be halted upon consultation between the owner and the Watermaster. Similarly, water level declines at the Edwards well can stop the test. Testing can be halted if a senior water right owner is not satisfied with changing conditions provided that the full amounts of Flora and/or Edwards water rights are not being delivered.
9. Although discussion at the October 3 meeting indicated that labor costs would be covered by IDWR to avoid any water district costs for the test, further consideration by IDWR has resulted in a different arrangement. This change was telephonically discussed with the test parties yesterday.

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To remain within water district rules and the prior budgeting and billing method of the district and because possible benefits can accrue to any deliverable water right from this or other tests, the following method will be used to fund the test:

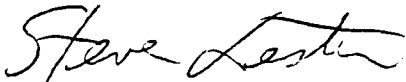
a) Watermaster will initiate the test on day 1, October 6 and will record data twice a day through day 5, October 10. Estimated cost is \$250. This amount will be proportionally assessed to district members in 1994 billing.

b) IDWR will assume monitoring duties from the Watermaster on day 6, October 11 through day 9, October 14. If conditions allow the Terteling well to remain in use beyond the anticipated last day of the test (day 9), IDWR will continue monitoring on a less frequent basis not to exceed the end of the irrigation season, November 15. Estimated district savings are at least \$200 and perhaps significantly more (\$50 savings for each day that IDWR assumes Watermaster's monitoring role).

I believe that together we have devised an equitable method to gather new data to assist this water district. Everyone has at least potential benefits from this exercise. Participation and cost-sharing by the water users, Watermaster and IDWR should provide a more reliable product regardless of whatever data result from the test.

Please contact me if you have any questions or comments.

Sincerely,



Steve Lester  
Water Rights Supervisor

Enclosure: Distribution List

c: Ed Squires, Consultant  
John Homan and Ken Neely, IDWR State Office  
Lori Graves, IDWR Regional Office

D SEE & E TULLIS  
FLORA CO  
3823 N 36  
BOISE ID 83703

TERTLING TRUST NO 7  
877 W MAIN STE 706  
BOISE ID 83702

MARY OR ROSE RYAN  
4504 FOOTHILLS DR  
BOISE ID 83703

W F RINGERT  
RINGERT CLARK CHRT LAW  
PO BOX 2773  
BOISE ID 83701-2773

DAVE HENDRICKSON  
4520 N 36  
BOISE ID 83703

KENNETH R ARMENT  
GERY W EDSON PA  
PO BOX 448  
BOISE ID 83701

SHERMAN NELSON  
4015 WHITEHEAD ST  
BOISE ID 83703

WILLIAM R SNYDER  
PO BOX 961  
BOISE ID 83701

SUSAN D MINER  
HAWLEY TROXELL ET AL  
PO BOX 1617  
BOISE ID 83701

J FEREDAY & M CREAMER  
GIVENS PURSLEY ET AL  
PO BOX 2720  
BOISE ID 83701

WILLIAM D COLLINS  
WESTBERG MCCABE & COLLINS  
PO BOX 2836  
BOISE ID 83701

EDWARDS GREENHOUSES  
ATTN M OR G MONNIE  
4106 SAND CREEK  
BOISE ID 83703

WATERMASTER ED YOUNG  
2320 N 21ST  
BOISE ID 83702