



SHEPHERD ENGINEERING INC.

Civil/Municipal, Transportation, Industrial
Recreation & Land Development Services

203 South Garfield
Pocatello, Idaho 83204
(208) 233-9793
Fax (208) 233-9806
E-mail: sei@nicoh.com

60 E. Center, Suite 209
P. O. Box 3246
Logan, Utah 84323-3246
(435) 755-6530
E-mail: shepeng@cache.net

April 27, 2001

Canda Dimick, City Clerk
City of Lava Hot Springs
115 West Elm Street
Lava Hot Springs, Idaho 83246

FAX TRANSMITTAL 776-5130

EDWR
RECEIVED 7/5/01
ABR

RE: Field Estimate of Flow from Leaking Valve

Dear Canda:

At the City's request, Tony Hobson and I made a field visit on this date to estimate the amount of water leaking from the drain valve on the City's spring/well transmission line located east of the City. Based on our field measurements, it is my opinion that approximately 25 gallons per minute (36,000 gallons per day) are leaking from around the valve stem.

In order to measure this flow, we placed plastic sheeting over the stem of the valve and wrapped the plastic over the top of the valve to catch the water spraying out from the valve stem. After we were able to capture most of the water, we cut holes in the sheeting in order to control the point of discharge and then used a bucket to measure the flow.

PSEUDO

I believe that this represents a good estimate of the water leaking from the top of the valve around the stem. There was no indication that the valve or pipe line had other leaks at this location.

Please let me know if you have questions or need further information.

Sincerely,

Wayne

L. Wayne Shepherd, P.E.

This REFERENCED LEAK is upstream of the City flow meter. THEREFORE, THIS VOLUME SHOULD BE ADDED TO THE TOTAL. THIS LEAK IS DIRECTLY RELATED TO SPRING FLOW (WELL ONLY RUNS 20 HRS.) SPRING FLOW IS CONSTANT