

Lester, Steve

From: Terry Scanlan [TScanlan@spfwater.com]
Sent: Wednesday, December 12, 2007 8:58 AM
To: Lester, Steve
Cc: Marv Meyer; Whitney, Rob
Subject: The Falcon Building (Velma Morrison) Production and Injection Wells

Steve –

Attached is a letter requesting modification of permits associated with proposed production and injection wells for the Falcon Building in Boise. The letter requests that the allowable well depth be increased from 40 to 70 feet. The reason for extending the well depth is that the alluvial aquifer in this area typically extends from about 10 to 70 feet depth, and we are concerned that limiting the depth to only 40 feet could compromise the success of the project.

The well driller (Stevens and Sons) is ready to begin work, so we would like to get the drilling permits amended to allow for the deeper well depth ASAP. Please contact me with any questions. I can arrange for signatures from Velma Morrison (applicant) or Marv Meyer (Russell Corp., representative listed on water right permit application) if needed. Thanks.

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12/12/2007

**SPF**

Water Engineering, LLC
water resource consultants

December 12, 2007

Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

Subject: Application for Water Right Permit 63-32619
Injection Permit 63-W-229-001
Drilling Permit 902908-849895
Drilling Permit 902909-849896

Dear Steve:

On behalf of Velma Morrison and The Russell Corporation, this letter seeks to increase the allowable depth for the production and injection wells that are proposed to serve the hydronic heating and cooling system for The Falcon Building in Boise. Permits for the wells currently describe a maximum depth of 40 feet.

We are requesting that the maximum well depths authorized by the above referenced permits be increased from 40 feet to 70 feet. The reason for the increase is that the shallow alluvial aquifer in the vicinity of The Falcon Building typically extends to a depth of 70 feet. The alluvial aquifer is composed primarily of sand, gravel, and cobbles, and is underlain by finer-grained lake bed sediments (typically sand and clay). Most high capacity wells in the alluvial aquifer are screened below 40 feet to obtain adequate production. Therefore, we anticipate that the production and injection wells serving The Falcon Building will be more successful in they extend to depths of approximately 60 feet, rather than 40 feet. The aquifer is continuous from approximately 10 to 70 feet. Extending the well depths will not involve mixing of water from separate aquifers.

In addition to increasing the depths authorized for these wells, we also request that the casing size for the production well (drilling permit 902908-849895) be increased from 6-inch to 8-inch diameter. The larger diameter casing is needed to properly fit a submersible pump capable of producing the desired 0.33 cfs production rate.

Please contact me with any questions.

Sincerely,

Terry M. Scanlan, P.E., P.G.
Engineer/Hydrogeologist

Cc: Marvin Meyer (The Russell Corporation)
File: 662.0010