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and
ASSOCIATES

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February 28, 1997

Mr. Gary Spackman
Department of Water Resources
1301 North Orchard Street
Statehouse Mail
Boise, ID 83720-9000

RE: Summary of Don Rigby and Monty Yost's "Golden Grain" Well Monitoring during the 1996 Irrigation Season (Water Right Nos. 29-7636 & 29-7637).

In accordance with the approved Well Monitoring Plan, monitoring of the water depth in Monty Yost's "Golden Grain" well and the unused well located approximately 300 feet southeast of the "Pond Place" well began on April 15, 1996. No irrigation was being done by Monty Yost or Don Rigby at this time. The initial water depth in the Golden Grain well was 89.1 feet (this level corresponds with the 89 foot level reported in the well driller's report). The initial water depth in the Pond Place monitoring well was 74.4 feet.

Water levels were measured in the Golden Grain well via an existing 100 foot airline which was installed when the well was deepened in 1978. The Pond Place monitoring well water levels were measured directly with an engineering tape using the well casing rim as the reference point.

On May 8th, Don Rigby began irrigating from the "Old Faithful" well (located 5,018 feet from the Pond Place monitoring well and 11,658 feet from the Golden Grain well. During the following 13 days, the water level in the Golden Grain well remained constant at 89.5 feet and the water level in the Pond Place monitoring well rose 4 tenths of a foot.

On May 21st, Don Rigby began irrigating from the Pond Place well and the water level in the Pond Place monitoring well dropped from ¹⁹⁹⁶ 74.4 feet to 106 feet (Average). During the next twenty days, the water level in the Pond Place monitoring well varied from 103.0 feet to 109.4 feet. The water level in the Golden Grain well remained constant at 89.6 feet.

On June 12th, Monty Yost began irrigating from the Golden Grain well and the water level dropped below 100 feet, which is the depth of the airline. Monty Yost continued to irrigate until August 15th, when he secured the Golden Grain pump for the season. The water level in the Golden Grain well returned to the pre-irrigation level of

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89.6 feet.

Don Rigby secured the Pond Place well on July 11th. The water level in the Pond Place monitoring well returned to the pre-irrigation level of 74.4 feet.

CONCLUSION

Based on this first year's monitoring data it appears that Don Rigby's irrigation system had minimal (if any) affect on Monty Yost's Golden Grain well. By utilizing the existing monitoring wells, we could not perform an accurate pump test on each of the wells involved, therefore, the exact zone of influence could not be calculated for each operating well. The rapid (within days) return to pre-irrigation levels for both the Golden Grain well and the Pond Place well, suggest little detriment to the local water source.

RECOMMENDATIONS

I recommend that monitoring continue in accordance with the monitoring plan through the 1997 irrigation season in order to verify previous data.

If you have any questions regarding this information, please feel free to contact me.

Very best regards,



Mark Dietrich
Project Engineer

cc/Don Rigby

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