

# Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-15102

ROUTED TO: WATER RIGHTS

TOWNSHIP/ (LAURA)

RANGE-SECTION: 39S/1E-6

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

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Reviewer: DEW

Application No.

Permit No.

G/15102



Water Resources Department

MEMO

SEP 1, 2000

TO Application G- 15102

FROM GW: IVAN GALL / WOODCOCK  
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

Yes

The source of appropriation is within or above a Scenic Waterway

No

Yes

Use the Scenic Waterway condition (Condition 7J).

No

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)

At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

FLOW REDUCTION: (To be filled out only if Preponderance of Evidence box is not checked)

Exercise of this permit is calculated to reduce monthly flows in \_\_\_\_\_ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Application No. G15102  
Permit No.



TO: Water Rights Section  
FROM: Groundwater/Hydrology Section EVAN GALL <sup>AUG 17 2000</sup>  
SUBJECT: Application G- 15102 BUDGET TRUCK STOP  
Reviewer's Name [Signature]

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE \_\_\_\_\_ Basin rules, one or more of the proposed POA's is/is not within \_\_\_\_\_ feet/mile of a surface water source (\_\_\_\_\_) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use  
a. \_\_\_ will, or \_\_\_\_\_ have the potential for substantial interference with the nearest  
b.  will not \_\_\_\_\_ surface water source, namely \_\_\_\_\_; or  
c. \_\_\_ will if properly conditioned, adequately protect the surface water from interference:  
i. \_\_\_ The permit should contain condition #(s) \_\_\_\_\_;  
ii. \_\_\_ The permit should contain special condition(s) as indicated in "Remarks" below;  
iii. \_\_\_ The permit should be conditioned as indicated in item 4 below; or  
d. \_\_\_ will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use  
a. \_\_\_ will, or \_\_\_\_\_ likely be available in the amounts requested without injury to prior rights  
b.  will not \_\_\_\_\_ and/or within the capacity of the resource; or  
c. \_\_\_ will if properly conditioned, avoid injury to existing rights or to the groundwater resource:  
i. \_\_\_ The permit should contain condition #(s) \_\_\_\_\_;  
ii. \_\_\_ The permit should contain special condition(s) as indicated in "Remarks" below;  
iii. \_\_\_ The permit should be conditioned as indicated in item 4 below; or
4. a. \_\_\_ THE PERMIT should allow groundwater production from no deeper than \_\_\_\_\_ ft. below land surface;  
b. \_\_\_ The permit should allow groundwater production from no shallower than \_\_\_\_\_ ft. below land surface;  
c. \_\_\_ The permit should allow groundwater production only from the \_\_\_\_\_ groundwater reservoir between approximately \_\_\_\_\_ ft. and \_\_\_\_\_ ft. below land surface;  
d. \_\_\_ Well reconstruction is necessary to accomplish one or more of the above conditions.  
e. \_\_\_ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Well Construction Considerations on Reverse Side)

**Application No.** G15102  
**Permit No.**

*[Faint stamps and markings]*

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

well is constructed properly. *J. K. B.*

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
- a.  review of the well log;
  - b.  field inspection by \_\_\_\_\_;
  - c.  report of CWRE \_\_\_\_\_;
  - d.  other: (specify) \_\_\_\_\_

6. THE WELL construction deficiency:
- a.  constitutes a health threat under Division 200 rules;
  - b.  commingles water from more than one groundwater reservoir;
  - c.  permits the loss of artesian head;
  - d.  permits the de-watering of one or more groundwater reservoirs;
  - e.  other: (specify) \_\_\_\_\_

7. THE WELL construction deficiency is described as follows: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

8. THE WELL
- a.  was, or \_\_\_\_\_ constructed according to the standards in effect at the time of
  - b.  was not \_\_\_\_\_ original construction or most recent modification.
  - c.  I don't know if it met standards at the time of construction.

RECOMMENDATION:

- A.  I recommend including the following condition in the permit:  
 "No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B.  I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C.  REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit.  
 \_\_\_\_\_, 199\_\_\_\_  
 (Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_, 199\_\_\_\_  
 (Signature)

**Application No.** *915102*  
**Permit No.**

*Application No.*  
*Permit No.*



TO: Water Rights Section AUG 17 2000  
199  
FROM: Groundwater/Hydrology Section EVAN GALL JKB  
SUBJECT: Application G- 15102  
BUDGET TRUCK STOP  
Reviewer's Name

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REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Well Construction Considerations on Reverse Side)

G-15102

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(Signature)



Water Right Conditions  
Tracking Slip

Groundwater/Hydrology Section

FILE ## G-15102

ROUTED TO: WATER RIGHTS

TOWNSHIP/ (LAURA)

RANGE-SECTION: 393/1E-6

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Reviewer: DEW







## WATER RESOURCES DEPARTMENT MEMORANDUM

**Date:** August 24, 2000  
**To:** Groundwater/Hydrology  
**From:** Ivan Gall – Grants Pass *JKB*  
**Subject:** GW Application **G-15102**

**RECEIVED**

AUG 28 2000

WATER RESOURCES DEPT.  
SALEM, OREGON

**Applicant:** Budget Truck Stop, Inc Profit Sharing & Money Purchase Pension Plan by Gary Hall, Trustee  
**Seek:** **40 gpm** for 8 acres; asking for **21 acre-feet**  
**From:** 1 drilled well, Bear Creek sub-basin, Rogue Basin  
**Proposed Use:** Irrigation (Pasture during April-October, landscape all year), Fish Pond (All Year) and Domestic (All Year)  
**Quad Name:** Ashland

**Well #1** (**JACK 52996**) 39S/01E-6aa (NE of the NE) Jackson County  
Well elevation at site is ~2060 ft (NGVD 1929)  
Bear Creek elevation is ~1660 ft (NGVD 1929)  
Well is 2,800 ft SW from Bear Creek  
Well is 2,500 ft NW from Wrights Creek  
Well is 500 ft SE from Wildcat Gulch  
Well is 425 ft deep with WBZs at 306-307 and 418-425 ft bgs  
SWLs: 3-3-99 146 ft (well log); 1-7-00 145.35 ft btoc (Gall; toc=1.1 ft ags);  
6-00 157.4 ft (Ferrero Geologic aq. test)

### Evaluation Summary

The subject property is located at 1000 Frank Hill Road just north of Ashland off of Ashland Mine Road. A Talent Irrigation District lateral follows the hill just below the property. The proposed ground water use will be for irrigation of pasture and landscaping (approximately 8 acres), and filling of two lined ponds connected by a waterfall. The well will also be used for domestic water. The applicant is seeking a rate of 40 gallons per minute with a total duty of 21 acre-feet.

The bedrock geology is composed of late Jurassic quartz diorite of the Mt. Ashland pluton. One of the ponds on the subject property was an old quarry for granitic rock,





indicative of the shallow depth to competent bedrock (and subsequent lack of a thick weathered zone). The well log indicates decomposed granite to a depth of 31 feet, and granite from 31 to 425 feet. Topographically, the area is characterized by small draws and ridges which slope northeast towards Bear Creek. Based on the bedrock source of ground water, and the distance of 2,800 ft to Bear Creek, it is unlikely that significant interference with surface water flows would occur from use of the Hall well. However, it should be recognized that the bedrock aquifer may discharge ground water into alluvium hydraulically connected with Bear Creek.

Ground water appears to occur in fractures within the bedrock, as indicated by two discrete water bearing zones on the Budget Truck Stop well. Based on the variability of well logs in the area, it is difficult to ascertain if the unfractured bedrock has any significant permeability. Well log data is often inaccurate in identifying water-bearing stratigraphy during the drilling of a well. Well yields in section 6 range from less than 1 gpm to greater than 100 gpm, with many wells having less than 5 gpm. Well depths vary greatly, generally being in excess of 100 feet and ranging to over 800 feet. Ignoring wellhead elevation differences, there does not appear to be any obvious correlation between well depth and yield, suggesting that the fractured nature of the bedrock aquifer is highly variable.

The applicant hired a consultant, Ferrero Geologic, to conduct a 24-hour aquifer test at WRD's suggestion. The purpose of the aquifer test was to assess the potential for well interference, and to evaluate the time-drawdown response to evaluate aquifer yield and potential boundary conditions. Results of the aquifer test, conducted in June 2000, indicate that the Hall (pumping) well had 56 feet of drawdown after 24 hours, and that no boundary conditions appeared to be present.

The Yockey observation well (JACK 20278), located approximately 123 feet SW of the Hall well, had 36.1 feet of drawdown by the end of the pumping period. Water levels in three other wells were monitored during the pumping and recovery portions of the aquifer test. No obvious response to pumping from the Hall well was observed in any of these three wells. However, water levels in each of these three wells was either responding to other pumping in the area, or recovering from pumping conducted in that well prior to the aquifer test. For example, water levels in the Cook well were recovering for the duration of the pumping and recovery portions of the aquifer test. Drawdown at the end of the 24-hour pumping period had not stabilized in either the Hall or the Yockey wells.

No long-term water level data from state observation wells exist for this area.

**Recommendation:**

The proposed ground water use for this application is large relative to existing demands on the fractured bedrock aquifer. The 24-hour duration of the aquifer test is sufficient to help characterize the response of water levels in nearby wells to short-term pumping, but is not sufficient to estimate the effects of long-term pumping. The 36 feet of



drawdown in the Yockey well after 24 hours of pumping at the Hall well indicates the potential for significant interference when long-term pumping is considered. Again, drawdown at the end of the 24-hour pumping period had not stabilized in either the Hall or the Yockey wells.

The ground water resource is not available at this location to support irrigation of 8 acres and pond filling without the potential for substantial interference with neighboring wells. However, some additional ground water development can likely occur without substantially interfering with neighboring wells. **I recommend that this application be denied on the basis that use cannot be made without injury to the resource or existing users.**

**References:**

1. Land Use Geology of Central Jackson County, Oregon. Oregon Department of Geology and Mineral Industries, Bulletin 94, 1977.
2. WRD GRID well log database.
3. USGS topographic map, Ashland, OR 1:24,000 sheet.
4. 24-Hour Pump Test, Well at 1000 Frank Hill Road, Ashland, Oregon, Application G-15102, Ferrero Geologic, 6-28-00.