TO: Water Rights Section

June 7, [redacted] 2001

FROM: Groundwater/Hydrology Section Michael Zwart
Reviewer's Name

SUBJECT: Application G- 15479

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 0AR 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) 7B;
      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) 7E;
      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)

G-15479

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

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)

Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE #: G-15479

ROUTED TO: Water Rights

TOWNSHIP/ RANGE-SECTION: 39S/9E-31c

CONDITIONS ATTACHED? [✓] yes [ ] no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Michael Zwart

OREGON WATER RESOURCES DEPARTMENT
INTEROFFICE MEMO

To: Ground Water files Date: June 7, 2001

From: Michael J. Zwart

Subject: Application Review: G-15479, Luther and Candace Horsley

This application (also see G-15376) proposes to use about 1860 gpm from two wells (#1: KLAM 51231 and #2: unknown) for primary irrigation of 60.2 acres and supplemental irrigation of 159.35 acres. The wells produce water from a confined to semiconfined aquifer developed in Tertiary basalt rocks, likely the Basalt of Basin and Range (Tb2) as mapped by Sherrod and Pickthorn (1992).

The wells are about 4700 and 4000 feet, respectively, from an unnamed slough in the Lower Klamath NWR. There is no potential for substantial interference with surface water, based on the confined to semiconfined nature of the aquifer and the distance.

I recommend permit conditions 7B and 7E.

Water Resources Department

MEMO June 7, [redacted] 2001

TO Application G- 15479

FROM GW: Michael Zwart
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

☐ Yes
☑ No

The source of appropriation is within or above a Scenic Waterway.

☐ Yes
☑ No

Use the Scenic Waterway condition (Condition 7J).

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.

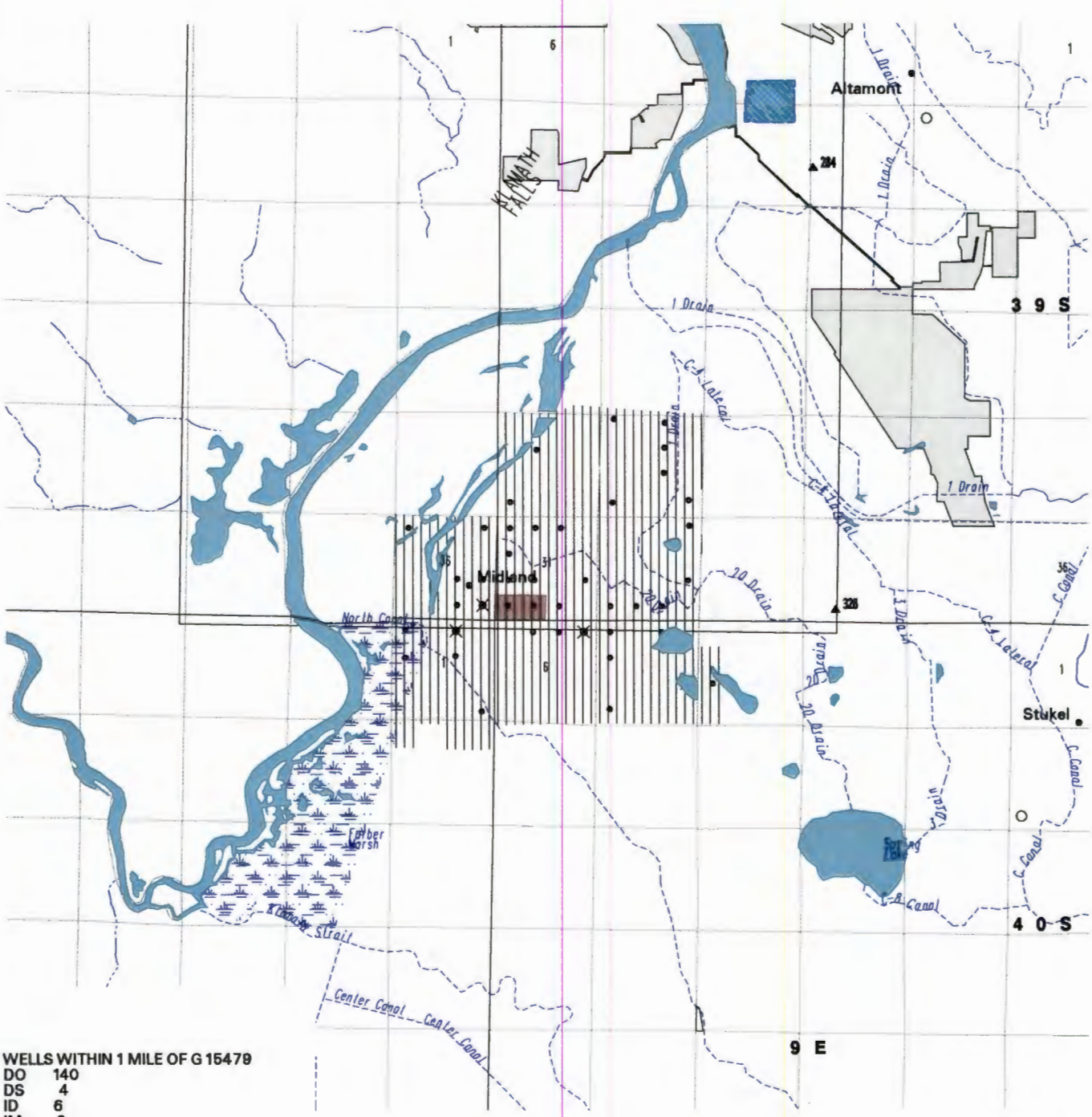
FLOW REDUCTION: *(To be filled out only if Preponderance of Evidence box is not checked)*

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

Wells in the vicinity of application G 15479

- Application well(s) in this 1/4-1/4 section
- Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application well(s)
- OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- Regulated GW Area



WELLS WITHIN 1 MILE OF G 15479

DO	140
DS	4
ID	6
IM	2
IR	4
MU	4

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 15479

$RECNO	APPLICATION		PERMIT		LOC-QQ	USE	RATE	DIV-UNITS
1	U	249	U	224	39.00S 8.00E36SESE	IR	0.6900	C
1	U	249	U	224	39.00S 8.00E36SESE	IR	0.9000	C
2	G	5553	G	4927	40.00S 8.00E 1NWNE	IR	0.0950	C
2	G	5839	G	5582	40.00S 8.00E 1NWNE	DO	0.1100	C
2	G	7657	G	8204	40.00S 8.00E 1NWNE	IR	0.0800	C
2	G	10296	G	9570	40.00S 8.00E 1NWNE	IR	0.0100	C
2	U	848	U	744	40.00S 8.00E 1NWNE	IR	0.0300	C
2	U	848	U	744	40.00S 8.00E 1NWNE	IS	0.2600	C
2	U	848	U	744	40.00S 8.00E 1NWNE	IS	0.4100	C
3	G	6272	G	5905	40.00S 9.00E 6NENE	IR	0.1800	C
4	G	12933	G	12589	40.00S 9.00E 5NESE	DN	0.0400	C

****

CONDITIONED WELLS WITHIN 5 MILES OF APPLICATION G 15479

$RECNO	APPLICATION		PERMIT		LOC-QQ	CONDITION-CODE
1	G	12135	G	11227	39.00S 9.00E11NWNW	4D
2	G	13007	G	11570	40.00S 9.00E12SWSW	DRF

****

APPLICATION G 15479 FALLS WITHIN THESE QUAD(S)

KLAMATH FALLS

****

APR 2 4 1990

WATER RESOURCES DEPT.
SALEM, OREGON

KLAM 10013 39s/9E/31cd

(START CARD) # W-17059

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

(1) OWNER: Well Number: 1/90
Name LUTHER HORSLEY
Address P.O. Box 209
City MIDLAND State ORE Zip 97634

(2) TYPE OF WORK:
☑ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☑ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

(4) PROPOSED USE:
☑ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 117 ft.
Explosives used Yes ☐ No ☑ Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
15"	0	20	CEMENT	3	20	7 SACKS
9 7/8	20	117				

How was seal placed: Method ☐ A ☐ B ☑ C ☐ D ☐ E
☐ Other
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	10 3/4	+1	20	.250	☑	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.
100		117	1 Hr

Temperature of water 60 Depth Artesian Flow Found 115
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other NO
Depth of strata:

(9) LOCATION OF WELL by legal description:
County KLAMATH Latitude 42° 7.5' Longitude 121° 47'
Township 39S N or S, Range 9E E or W, WM.
Section 31 SE ¼ SW ¼
Tax Lot 3909 Lot 03100 Block 01100 Subdivision
Street Address of Well (or nearest address) 633 OLD MIDLAND RD MIDLAND, OREGON

(10) STATIC WATER LEVEL:
69 ft. below land surface. Date 3/31/90
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 115 FT.

From	To	Estimated Flow Rate	SWL
	115	100 GPM	69

(12) WELL LOG: Ground elevation 4120

Material	From	To	SWL
CLAY & BOULDERS	0	4	
DECOMPOSED BROWN LAVA	4	12	
BLACK BASALT	12	34	
DECOMPOSED BROWN LAVA	34	46	
BROWN BASALT	46	65	
BROKEN BROWN LAVA	65	77	
HARD BROWN BASALT	77	117	69

Date started MARCH 22, 90 Completed MARCH 31, 90

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 601
Signed Daniel M. Hoy Date APRIL 21, 90

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3/88