

TO: Water Rights Section

Dec 17, 2001

FROM: Groundwater/Hydrology Section Dan Miller

Reviewer's Name

SUBJECT: Application G- 15660

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Willamette Basin rules, one or more of the proposed POA's is (is not) within 1/4 ~~feet~~/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.
No trigger of OAR 690-502-160
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
 - will if properly conditioned, adequately protect the surface water from interference:
 - The permit should contain condition #(s) 7F;
 - 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
 - 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;
 - 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.

15660

stet

REMARKS: _____

(Well Construction Considerations on Reverse Side)

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 RESOURCES

TO: Groundwater/Hydrology Files

Date: 12/17/01

FROM: Donn Miller

SUBJECT: Groundwater Application G- 15660

Phone: 503.834.2291

Name: Mt Hood Nat'l Forest, Timber Lake Civilian Conservation Center

Applicant(s) seek: 120 gpm () from one or two well(s) in the

Proposed use: Domestic / lawn
7 acres

Willamette R. basin
Clackamas R. sub basin
Oak Grove Fork sub basin

Perinent 7 1/2-minute quads

Fish Creek Mtn

Well _____ **WRD#** ^{TO BE} BUILT **T** 55 **R** 6E **S** 35 **Q** C **County** Clackamas

Legal Description 600' N + 800' E from Southwest Corner Section 35

Well(s) 1650 **ft from** trib fin Frog Lake to North **(river/stream)**

Well(s) 1300 / 1800 **ft from** small pond NW / small pond East **(river/stream)**

Well elevation 1790 **ft** **River/stream elevation** 1900, 1830 / 1650 **ft.**

Well elevation - river/stream elevation -110', -40' / 140'

Well depth 320' **SNL** 215 **on**

Sealed to 80' **Depth first water found** -

Cased to 300' **Perforations/screens** -

Lined to - **Perforations/screens** -

Well tests and types -

Confined or unconfined? **Hydraulically connected?**

Potential to cause substantial interference?

Proposed

Well _____ **WRD#** _____ **T** _____ **R** _____ **S** _____ **Q** _____ **County** _____

Legal Description _____

Well(s) _____ **ft from** _____ **(river/stream)**

Well(s) _____ **ft from** _____ **(river/stream)**

Well elevation _____ **ft** **River/stream elevation** _____ **ft.**

Well elevation - river/stream elevation _____

Well depth _____ **SNL** _____ **on**

Sealed to _____ **Depth first water found** _____

Cased to _____ **Perforations/screens** _____

Lined to _____ **Perforations/screens** _____

Well tests and types _____

Confined or unconfined? _____ **Hydraulically connected?** _____

Potential to cause substantial interference? _____

Conditioned water rights in area: NO

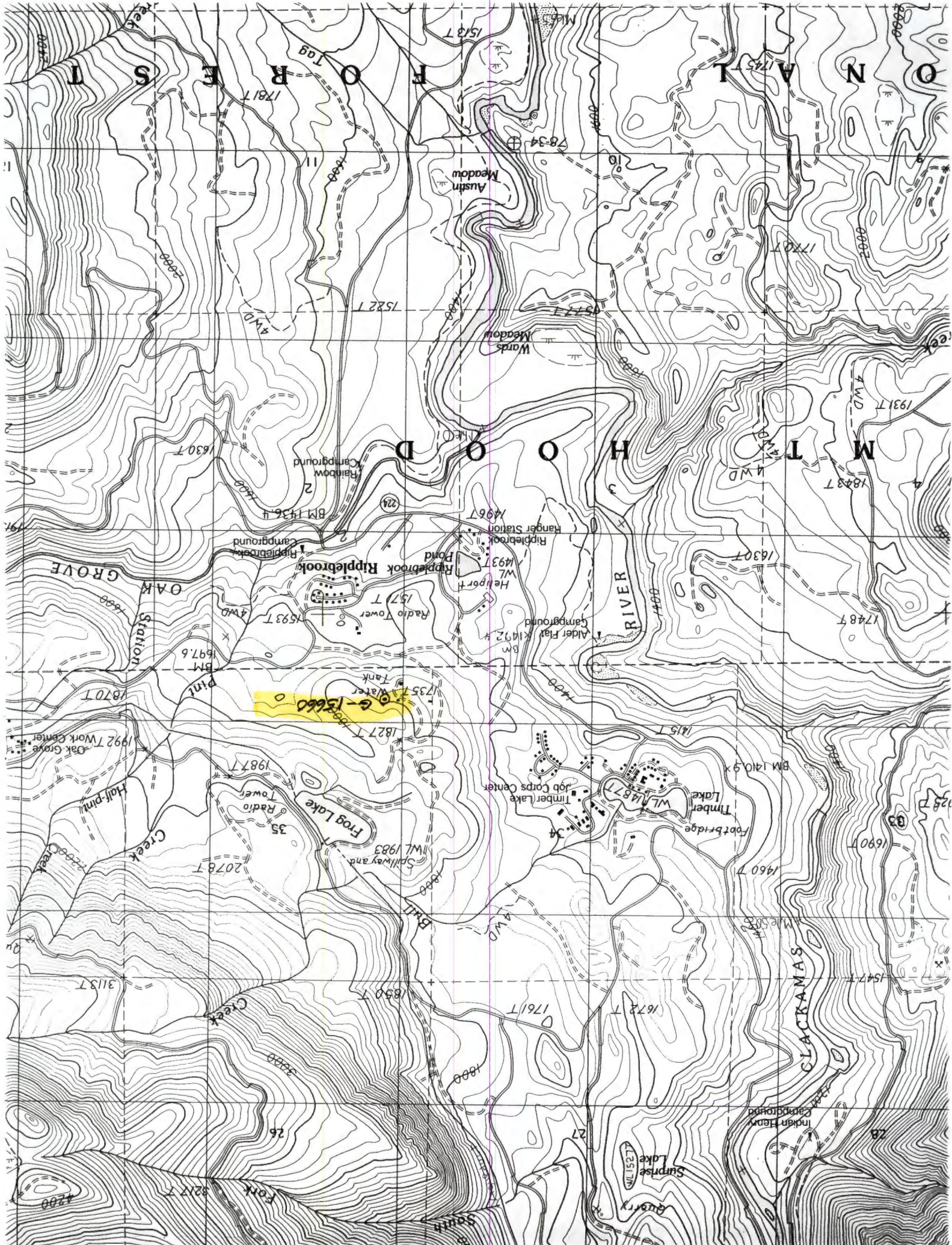
Other nearby water rights of record: NO

Density of nearby wells of record: Nil

Comments: 62K gals/day

Area is landslide deposits

References used: Well Logs, Geologic Map of Oregon - 1991 - Walker & MacLeod



6-15660

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

CLAC
 50347

(1) **OWNER/PROJECT:** Hole Number LT-23
 Name Portland General Electric
 Address 121 SW Salmon St.
 City Portland State OR Zip 97204

(2) **TYPE OF WORK**
 New Deepening Alteration (repair/recondition) Abandonment

(3) **CONSTRUCTION:**
 Rotary Air Hand Auger Hollow Stem Auger ODEX +
 Rotary Mud Cable Tool Push Probe Other HQWL

(4) **TYPE OF HOLE:**
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other

(5) **USE OF HOLE:**
Slope Inclinator

(6) **BORE HOLE CONSTRUCTION:**
 Special Construction approval Yes No Depth of Completed Hole 340.4 ft.

HOLE			SEAL			Sacks or Pounds
Diameter	From	To	Material	From	To	
9"	0	8.6'	Cement	0	76'	2900
6"	8.6'	99'	Cement	107'	146.5'	355
4.75"	99'	146.5'				
3.75"	146.5'	340.4'				

Backfill placed from 76 ft. to 107 ft. Material sand ⁸⁻¹² ₁₀₋₂₀
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) **CASING/SCREEN:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6.5	0	8.6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.5	0	340.4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Screen:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Slot size _____

(8) **WELL TEST:**
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) **LOCATION OF HOLE by legal description:**
 County Clackamas Latitude 45.09 Longitude 122.04
 Township 5 N or S Range 6 E or W. WM.
 Section 35 SW 1/4 NW 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) PAE Oak Grove Powerplant
55580 E. Hwy 224, Estacada, OR 97023

Map with location identified must be attached

(10) **STATIC WATER LEVEL:**
20 ft. below land surface. (first encountered) Date 7-31-95
 Artesian pressure _____ lb. per square inch. Date _____

(11) **SUBSURFACE LOG:**
 Ground Elevation 1930 ft approx

Material Description	From	To	SWL
Slide Debris Bouldery	0	45	20
Slide Debris Fractured	45	-230	195
Tuff Breccia			
Fractured Tuff Breccia	-230	265	195
Fractured Basalt	265	340.4	195

Date Started 7-31-95 Date Completed 9-12-95

(12) **ABANDONMENT LOG:**

Material Description	From	To	Sacks or Pounds

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 SEP 27 1995
 SALEM, OREGON

Date started _____ Date Completed _____

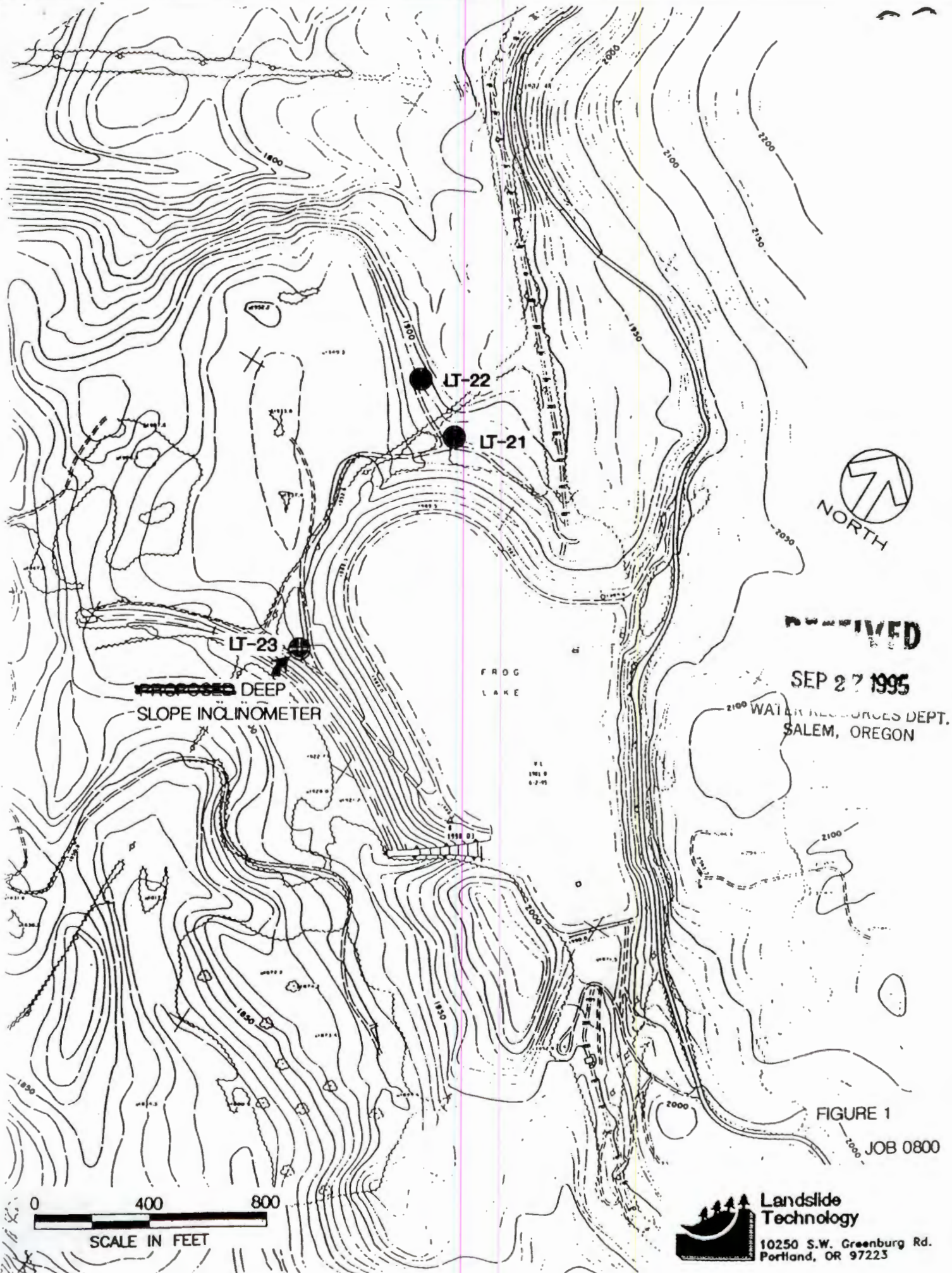
Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or registered geologist or civil engineer).

I accept responsibility for the construction, alteration, or abandonment work performed on during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number E1056
 Signed [Signature] Date 9-25-95
 Affiliation Landslide Technology

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER



RECEIVED

SEP 27 1995

WATER RESOURCES DEPT.
SALEM, OREGON

FIGURE 1
JOB 0800

0 400 800
SCALE IN FEET

 **Landslide
Technology**
10250 S.W. Greenburg Rd.
Portland, OR 97223

STATE OF OREGON
GEOTECHNICAL HOLE REPORT
 (as required by OAR 690-240-035)

MAY 11 2007 CLAC

56736

WATER RESOURCES DEPT
 SALEM, OREGON

(1) OWNER/PROJECT: Portland General Electric Hole Number _____
 Name Portland General Electric
 Address 121 SW Salmon St
 City Portland State OR Zip 97204

(2) TYPE OF WORK
 New Deepening Alteration (repair/recondition) Abandonment

(3) CONSTRUCTION:
 Rotary Air Hand Auger Hollow Stem Auger
 Rotary Mud Cable Tool Push Probe Other _____

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability Other _____

(5) USE OF HOLE:
check for slide
slope indicator

(6) BORE HOLE CONSTRUCTION:
 Special Construction approval Yes No Depth of Completed Hole: 320 ft.

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
8	0	320	Bentg-	0	320	300 Galks

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter Pack placed from _____ ft. to _____ ft. Size of pack _____

(7) CASING/SCREEN:

Casing/Screen	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
Casing:	3.34"	0	320		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Screen:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Slot size					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TEST:
 Pump Bailer Air Flowing Artesian
 Permeability _____ Yield _____ GPM _____
 Conductivity _____ PH _____
 Temperature of water 51 °F/C Depth artesian flow found _____ ft.
 Was water analysis done? Yes No
 By whom? _____
 Depth of strata analyzed. From _____ ft. to _____ ft.
 Remarks: _____

(9) LOCATION OF HOLE by legal description:
 County Clack Latitude _____ Longitude _____
 Township 5 N or S Range 6 E or W. WM.
 Section 35 NE 1/4 SW 1/4
 Tax Lot 100 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) _____

Map with location identified must be attached

(10) STATIC WATER LEVEL:
215 ft. below land surface. Date 4.3.1
 Artesian pressure _____ lb. per square inch. Date _____

(11) SUBSURFACE LOG:
 Ground Elevation _____

Material Description	From	To	SWL
Brn silt & gravel	0	10	
Brn clay & gravel	10	32	
Gray/Blk clay	32	34	
light Brn powdery silt	34	40	
course sandy silt Brn	40	45	
Basalt rubble with sand & silt matrix	45	80	
extremely fractured Basalt	80	260	
less fractured Blk Basalt	260	290	

Date Started _____ Date Completed _____

(12) ABANDONMENT LOG:

Material Description	From	To	Sacks or Pounds
Blue/green clay	290	295	
soft gray andisite	295	297	
Brn silt (ash)	297	300	
Brn, Blk, and red soft weathered Basalt	300	320	
Gray silt stone	320	325	

Date started 3.23.1 Date Completed 4-13-07

Professional Certification
 (to be signed by a licensed water supply or monitoring well constructor, or Oregon registered geologist or civil engineer).

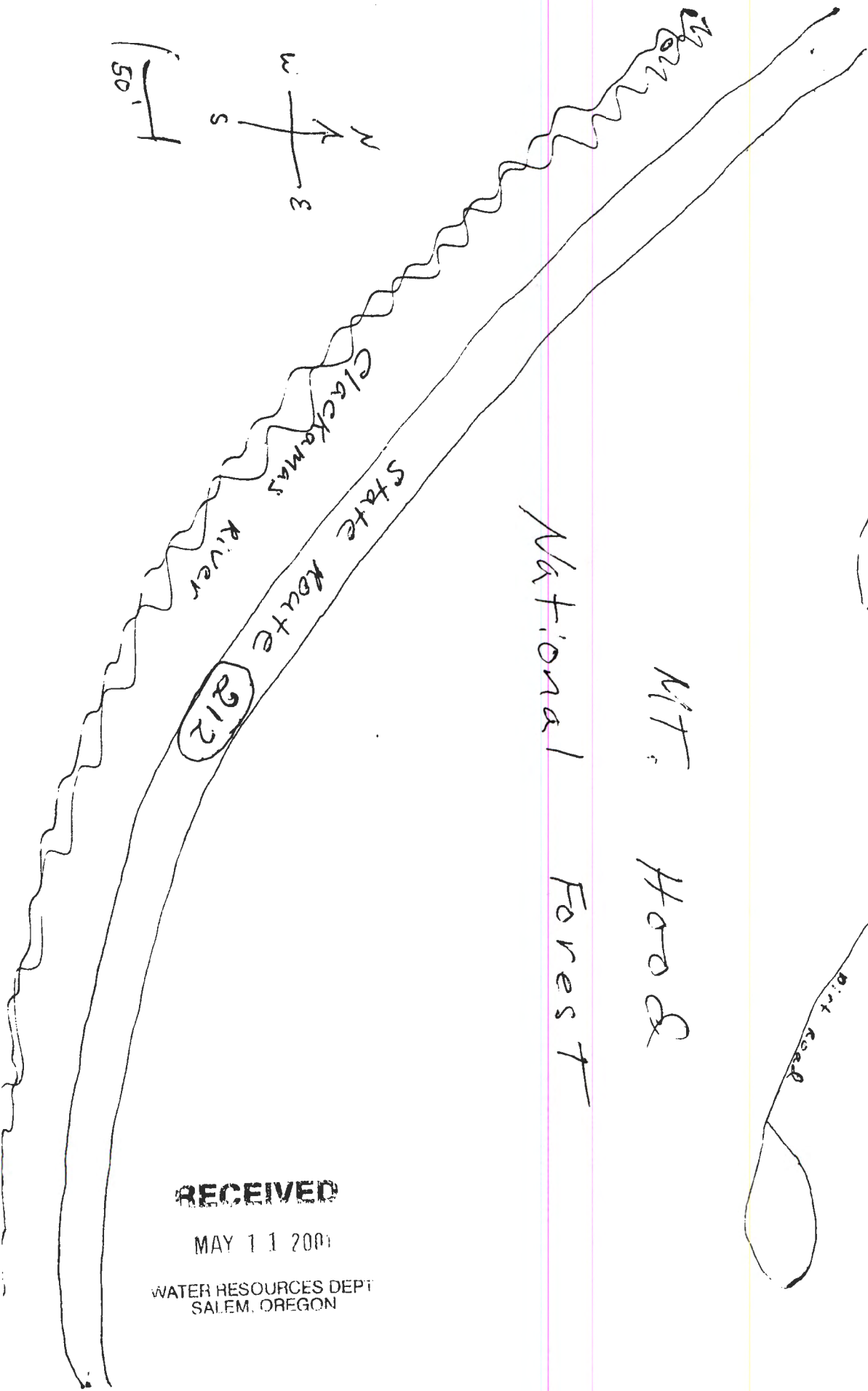
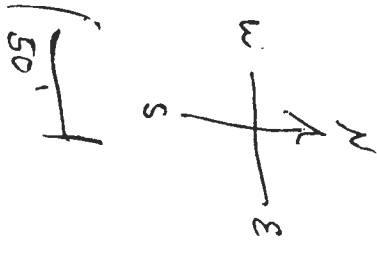
I accept responsibility for the construction, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon's geotechnical hole construction standards. This report is true to the best of my knowledge and belief.

License or Registration Number 10479
 Signed Joseph R. Doherty Date 10479
 Affiliation _____

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

Printed
1/1/01

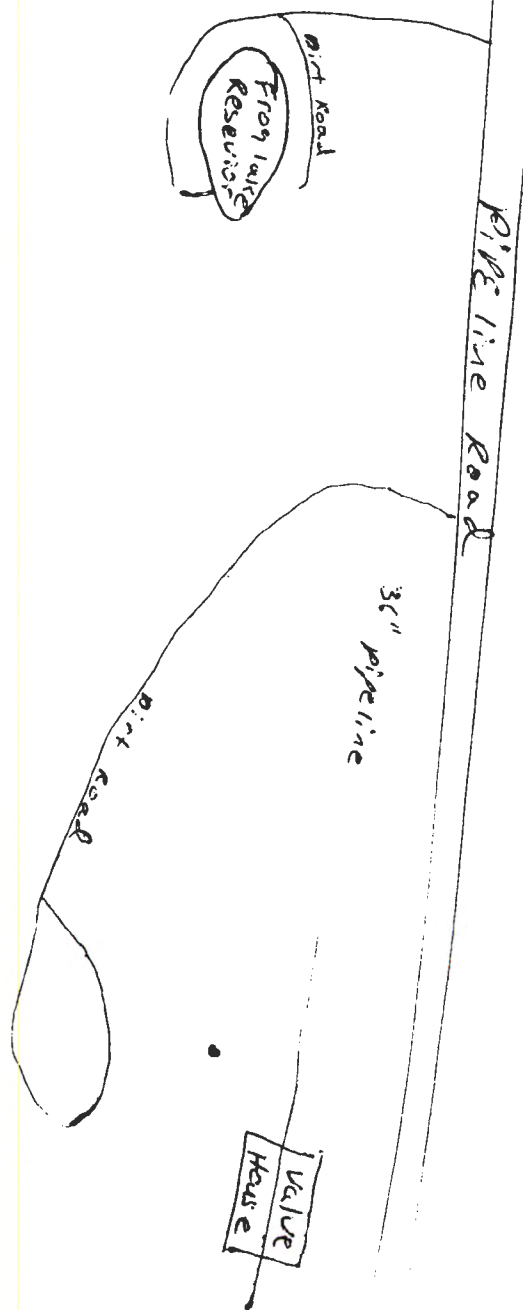


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MAY 11 2001

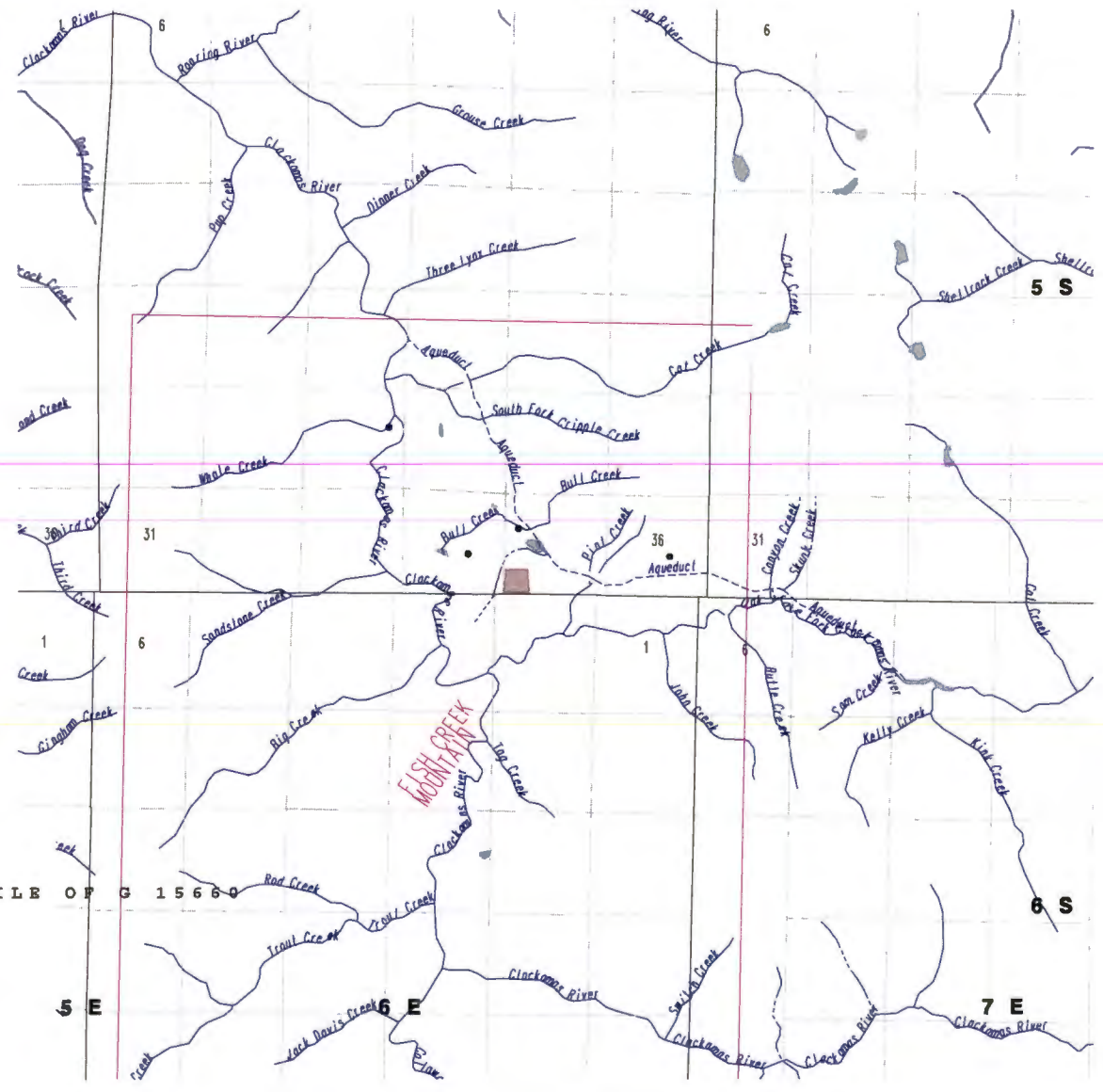
WATER RESOURCES DEPT
SALEM, OREGON

MT. Hood
National Forest



Wells in the vicinity of application G 15660

- 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 15660
 DO 2
 MO 12

NO PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 15660

NO CONDITIONED WELLS WITHIN 1 MILE OF APPLICATION G 15660

APPLICATION G 15660 FALLS WITHIN THESE QUAD(S)

FISH CREEK MOUNTAIN

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE #.. G-15660

ROUTED TO: WR'S Cong Engel

TOWNSHIP/

RANGE-SECTION: 5S/6E-35

CONDITIONS ATTACHED? yes no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Don Miller