

TO: Water Rights Section Oct 9, 2000  
199  
 FROM: Groundwater/Hydrology Section Ivan Gall  
 SUBJECT: Application G- 15192 Reviewer's Name

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 WILLIAMS CR; 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.

G-15192

REMARKS: SEE ATTACHED "PROPOSED CONDITION MEMO"

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(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)





10/9/00

**To:** File G-15192

**From:** Doug Woodcock

**Proposed Permit Conditions: Application G-15192**

1) Interference Condition 7B

2) Seven Year Minimum Decline Condition 7C

3) (New Language)

Each well on this permit shall be constructed to produce water from a single aquifer at the location specified above on the permit or certificate. The source of water shall not be changed by any subsequent reconstruction, deepening, or replacement of the well and shall be limited as follows:

<b>Well #</b>	<b>Well Log ID</b>	<b>Aquifer</b>	<b>Other Limits</b>
Well 1	JOSE 1978	granitic aquifer	no water less than 127 ft below land surface
Well 2	JOSE 1979/12820	granitic aquifer	no water less than 115 ft below land surface



**Water Right Conditions  
Tracking Slip**

*Groundwater/Hydrology Section*

FILE ## G 15192

ROUTED TO: WATER RIGHTS

TOWNSHIP/

RANGE-SECTION: 38S/5W-11

CONDITIONS ATTACHED? []yes []no

REMARKS OR FURTHER INSTRUCTIONS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Reviewer: DEW

## WATER RESOURCES DEPARTMENT MEMORANDUM

**Date:** October 5, 2000  
**To:** Groundwater/Hydrology  
**From:** Ivan Gall – Grants Pass  
**Subject:** GW Application G-15192

Applicant: Robert and Susan Smallwood  
Seek: **100 gpm** for 18.4 acres; asking for **48 acre-feet**  
From: 2 drilled wells, Williams Creek/Applegate River Sub-Basin, Rogue Basin  
Proposed Use: Irrigation (Pasture grass during April-October)  
Quad Name: Murphy

Well #1 (**JOSE 1978**) 38S/05W-11bd (SE of the NW) Josephine County  
Well elevation at site is ~ 1,390 ft (NGVD 1929)  
Williams Creek elevation is ~ 1,200 ft (NGVD 1929)  
Well is ~4,000 ft West from Williams Creek  
Well is ~400 ft South from unnamed, seasonal tributary to Williams Creek  
Well is ~700 ft North from unnamed, seasonal tributary to Williams Creek  
Well is 170 ft deep with WBZ from 135 to 160 ft bgs  
SWLs: 20 ft (5/74 well log)

Well #2 (**JOSE 1979, 12820**) 38S/05W-11bd (SE of the NW) Josephine County  
Well elevation at site is ~ 1,405 ft (NGVD 1929)  
Well is ~4,400 ft West from Williams Creek  
Well is ~700 ft S from unnamed, seasonal tributary to Williams Creek  
Well is ~300 ft N from unnamed, seasonal tributary to Williams Creek  
Well is 164 ft deep (cleaned/drilled to 177 ft) w\ WBZs from 130-164 ft bgs  
SWLs: 16 ft (7/72 well log); 45 ft (7/87 well log)

### Evaluation Summary

The subject property is located at 13615 Watergap Road, west of Williams Creek between Pennington and Camp Meeting Creeks. The proposed ground water use from wells #1 and #2 will be for irrigation of pasture grass (approximately 18.4 acres). Well #2 will be the primary well for irrigation, with well #1 making up any deficiency, and also for domestic use. The applicant is seeking a rate of 100 gallons per minute with a total duty of 48 acre-feet.



The bedrock geology in the area is composed of granitic rocks. Based on well locations and material on the well logs, it appears that the two subject wells are completed in the fractured granitic bedrock, with water bearing zones being at least 120 feet below ground surface (bgs). A variable thickness of "red clay" overlies the bedrock in the area. Based on the bedrock source of ground water, and the distances of approximately 4,300 plus feet to Williams Creek, it is unlikely that significant interference with surface water flows would occur from the proposed use of the two wells. Several drainages closer than Williams Creek contain surface water during the wet months, but based on the shallow nature and no-flows during irrigation season, were not considered for this review. However, it should be recognized that alluvium overlying the bedrock aquifer may be hydraulically connected such that ground water use in the bedrock aquifer could cause or increase downward leakage of ground water.

Ground water occurrence in the area appears to be very good, with all wells (except one) in section 11 having yields greater than 15 gpm. Most wells are less than 200 feet deep. GRID lists a total of 19 well logs for this section. No well deepening are listed. These data suggest that the fractured bedrock has been a reliable source of ground water for the area.

Some long-term water level data from two state observation wells (#260, John Woods Well, and #261, Steve Miller Shop Well) exist for this area. Well #260 is located approximately 7,000 feet, and #261 is located approximately 4,000 feet, from the applicant's wells. Water level data collected at these wells, from approximately 1980 to present, indicate a seasonal fluctuation of approximately four to six feet, with no long-term water level declines evident.

### **Aquifer Testing:**

On October 3, 2000, OWRD staff Ivan Gall and Norm Daft assisted the Smallwoods in conducting an aquifer test on Well #2 (JOSE 1979/12820). Pumping began at 09:00 and continued until October 4 at 08:05 (approximately 23 hours of pumping). The test was conducted using a 5 HP submersible pump powered by a gas generator. Coleman's was responsible for installing the pump and providing the generator, flow meter, and discharge piping. Water level data was collected from the pumping well (#2), from the Smallwood domestic well (#1, JOSE 1978), and from a neighbor's irrigation well (Bauer observation well, no log available, ground water right). Well #1 is located approximately 390 feet NE of the pumping well, and the Bauer well is located approximately 755 feet east of the pumping well.

The average discharge rate for the test was 60.6 gallons per minute, averaged over the entire pumping period from a totaling flow meter (Rockwell International #35852145). Discharge water was piped approximately 80 feet from the well and spilled to the ground. Based on the clay content of the soil, and a 36 foot depth to water, the discharge water was not expected to infiltrate significantly back to the water table. The discharge rate was noted to decrease several times during the test for reasons



unknown, but likely having to do with the generator's power output. The generator was shut off for 2-3 minutes several times during the test for refueling, and this seemed to bring the discharge rate back to 61-62 gpm. Note the water level fluctuations on the pumping data plots (attached).

Prior to the pumping of well #2, the static level's of the wells were 43.13 feet (Bauer well), 22.47 feet (well #1), and 36.14 feet (well #2). No significant drawdown was observed at the Bauer well following 23 hours of pumping at well #2. One-tenth of one foot of drawdown may have occurred, but due to sparse measurements late in the test, direct correlation with pumping could not be made. Well #1, the Smallwood domestic well 390 feet NE of the pumping well, had approximately 4 feet of drawdown following 23 hours of pumping. The pumping well had approximately 71.4 feet of drawdown.

Following cessation of pumping, recovery water level data was collected from wells #1 and #2. Well use at well #1 interrupted recovery data collection at this well. Plots of recovery data for well #2 are also provided. Data indicate that the water level in well #2 was nearly fully recovered after 22.5 hours of recovery.

No data analysis to estimate aquifer properties of transmissivity or storage have been completed at this time. No evidence of boundary conditions was observed in the pumping, recovery, and observation well water level data.

### **Recommendation:**

The bedrock aquifer appears to be capable of supporting the proposed ground water use for this application. The 23-hour pumping aquifer test for well #2, and subsequent monitoring of recovery, showed no indication of any boundary conditions. The relatively slow rate of drawdown with time at the end of the test suggests that the aquifer is capable of sustaining the proposed pumping rates of 40 gpm (well #1) and 60 gpm (well #2), assuming that well #1 performs similarly to well #2.

***I recommend that the proposed ground water use be approved.*** The ground water use should be conditioned as follows:

1. Meters on both wells prior to use.
2. Static water levels shall be collected from each well during March of each year, and reported to the department, as long as water is used.
3. Well location condition

### **References:**

1. WRD GRID well log database.
2. USGS topographic map, Murphy, OR 1:24,000 sheet.
3. Aquifer test data collected by OWRD and the applicant; pumping well #2.
4. Geohydrological Map, Josephine County, Oregon, by Paul Hughes, 1979.



NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the

STATE ENGINEER, SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

**WATER WELL REPORT**  
STATE OF OREGON

(Please type or print)  
SALEM, OREGON

RECEIVED

JUN 11 1974

State Well No. 385/5W-1

State Permit No. \_\_\_\_\_

WOODEN

WATER GAP

**(1) OWNER:**

Name A.C. Wooden  
Address 13640 Water Gap Rd., Williams, Ore

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon

If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary  Cable  Dug   
Driven  Jetted  Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

**CASING INSTALLED:**

6" Diam. from 0 ft. to 127 ft. Gage 250  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

**PERFORATIONS:**

Perforated?  Yes  No.

Type of perforator used \_\_\_\_\_

Size of perforations in. by in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(7) SCREENS:**

Well screen installed?  Yes  No

Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) WELL TESTS:**

Drawdown is amount water level is lowered below static level

Was a pump test made?  Yes  No If yes, by whom? Driller  
Yield: 25 gal./min. with 97 ft. drawdown after 1 hrs.

Bailer test gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Artesian flow g.p.m. \_\_\_\_\_

Temperature of water 51 Depth artesian flow encountered \_\_\_\_\_ ft.

**(9) CONSTRUCTION:**

Well seal—Material used Cement  
Well sealed from land surface to 30 ft.  
Diameter of well bore to bottom of seal 10 in.  
Diameter of well bore below seal 6 in.  
Number of sacks of cement used in well seal 7 sacks  
Number of sacks of bentonite used in well seal 0 sacks  
Brand name of bentonite \_\_\_\_\_  
Number of pounds of bentonite per 100 gallons of water \_\_\_\_\_ lbs./100 gals.  
Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(10) LOCATION OF WELL:**

County Josephine Driller's well number \_\_\_\_\_  
Bearing and distance from section or subdivision corner \_\_\_\_\_

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found 13.5  
Static level 20 ft. below land surface. Date 5-2  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

**(12) WELL LOG:**

Diameter of well below casing 6"  
Depth drilled 170 ft. Depth of completed well 170

Formation: Describe color, texture, grain size and structure of material and show thickness and nature of each stratum and aquifer penetrated with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SW
<u>Red Clay</u>	<u>0</u>	<u>20</u>	
<u>Decomposed Granite</u>	<u>20</u>	<u>120</u>	
<u>Fractured Tombstone</u>	<u>120</u>	<u>170</u>	
<u>STRATA</u>	<u>135</u>	<u>160</u>	<u>2</u>

Work started 5-25 1974 Completed 5-28 19

Date well drilling machine moved off of well 5-28 19

**Drilling Machine Operator's Certification:**

This well was constructed under my direct supervision. Materials used and information reported above are true to the best of my knowledge and belief.

[Signed] G.E. Quinn Date 5-31 19  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 855

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name P.A. Quinn Drilling Co.  
(Person, firm or corporation) (Type or print)

Address 1840 Willow Ln, Grants Pass, OR 97526

[Signed] C.L. Overstreet  
(Water Well Contractor)

Contractor's License No. 546 Date 6/8 19



NOTICE TO WATER WELL CONTRACTOR  
The original and first copy  
of this report are to be  
filed with the

**RECEIVED**  
AUG 4 - 1972

**WATER WELL REPORT**

STATE ENGINEER, SALEM, OREGON  
within 30 days from the date  
of well completion.

STATE ENGINEER  
SALEM OREGON

STATE OF OREGON  
(Please type or print)

(Do not write above this line)

JOSE  
1979

State Well No. 385/5W-1

State Permit No. \_\_\_\_\_

**(1) OWNER:**

Name A.C. Wooden  
Address 13640 Watergap Rd. Williams, Ore

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon

If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary  Driven   
Cable  Jetted   
Dug  Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

**CASING INSTALLED:**

Threaded  Welded   
6" Diam. from 0 ft. to 115 ft. Gage 250  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

**PERFORATIONS:**

Perforated?  Yes  No.

Type of perforator used \_\_\_\_\_

Size of perforations in. by in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(7) SCREENS:**

Well screen installed?  Yes  No

Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(8) WELL TESTS:**

Drawdown is amount water level is lowered below static level

Was a pump test made?  Yes  No If yes, by whom? Driller  
Yield: 40 gal./min. with 94 ft. drawdown after 1 hrs.

Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Artesian flow \_\_\_\_\_ g.p.m.

Temperature of water 49 Depth artesian flow encountered \_\_\_\_\_ ft.

**(9) CONSTRUCTION:**

Well seal—Material used Cement  
Well sealed from land surface to 38' ft.  
Diameter of well bore to bottom of seal 10 in.  
Diameter of well bore below seal 6 in.  
Number of sacks of cement used in well seal 6 sacks  
Number of sacks of bentonite used in well seal \_\_\_\_\_ sacks  
Brand name of bentonite \_\_\_\_\_  
Number of pounds of bentonite per 100 gallons \_\_\_\_\_  
of water \_\_\_\_\_ lbs./100 gals.  
Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**(10) LOCATION OF WELL:**

County Josephine Driller's well number \_\_\_\_\_  
1/4 1/4 Section 11 T. 38-5 R. 5W  
Bearing and distance from section or subdivision corner \_\_\_\_\_

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found 130  
Static level 16 ft. below land surface. Date 7/31  
Artesian pressure 164 lbs. per square inch. Date \_\_\_\_\_

**(12) WELL LOG:**

Diameter of well below casing 6

Depth drilled 164 ft. Depth of completed well 164

Formation: Describe color, texture, grain size and structure of material and show thickness and nature of each stratum and aquifer penetrat with at least one entry for each change of formation. Report each change position of Static Water Level and indicate principal water-bearing str

MATERIAL	From	To	SWI
CLAY Brn - Boulders	0	47	-
Med			
CLAY Brn	47	62	-
Decomposed granite	62	110	-
Fractured Tombstone granite	110	164	16
Aquifer	130	164	

Work started 7/29 19 72 Completed 7/31 19

Date well drilling machine moved off of well 7/31 19

**Drilling Machine Operator's Certification:**

This well was constructed under my direct supervisi Materials used and information reported above are true to best knowledge and belief.

[Signed] C.L. Overstreet Date 7/31, 19.  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 422

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this repor true to the best of my knowledge and belief.

Name K.F. Daquin Drilling Co.  
(Person, firm or corporation) (Type or print)

Address 1540 Willow Ln Grants, Ore

[Signed] C.L. Overstreet  
(Water Well Contractor)

Contractor's License No. 546 Date 7/31, 19



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

2692  
17820 AUG 04 1987

WATER RESOURCES DEPT.  
SALEM, OREGON

38S/5W-11  
Record.

(1) OWNER:

Name Rogea Price Well Number: 830  
Address 13615 Watergap Rd  
City Williams State OR Zip 97544

(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:

Construction approval Yes  No  Depth of Completed Well 177 ft.  
Explosives used Yes  No  Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE		SEAL		Amount sacks or pounds
Diameter	From To	Material	From To	

How was seal placed: Method  A  B  C  D  E  
 Other Did not disturb

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER:

Casing/Liner	Diameter	From	To	Gauge	Steel		Plastic		Welded		Threaded	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) Did not disturb

PERFORATIONS/SCREENS:

Perforations Method \_\_\_\_\_  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

Pump  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
<u>60</u>	<u> </u>	<u>175</u>	<u>1 hr.</u>

Temperature of water 54° Depth Artesian Flow Found \_\_\_\_\_

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 \_\_\_\_\_

Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:

County Josephine Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 38S N or S, Range 5W E or W, WM.  
Section 11 SE ¼ NW ¼  
Tax Lot 403 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 13615 Watergap  
Williams OR

(10) STATIC WATER LEVEL:

45 ft. below land surface. Date 7-3-87  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found \_\_\_\_\_

From	To	Estimated Flow Rate	SWI

(12) WELL LOG:

Ground elevation \_\_\_\_\_

Material	From	To	SWI
<u>No Records Available</u>			
<u>Drilled out Rocks and was bridged at 28'</u>			
<u>clean hole to bottom</u>			
<u>177' Test well 60</u>			
<u>GPM</u>			

Date started 7-3-87 Completed 7-3-87

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, 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 \_\_\_\_\_

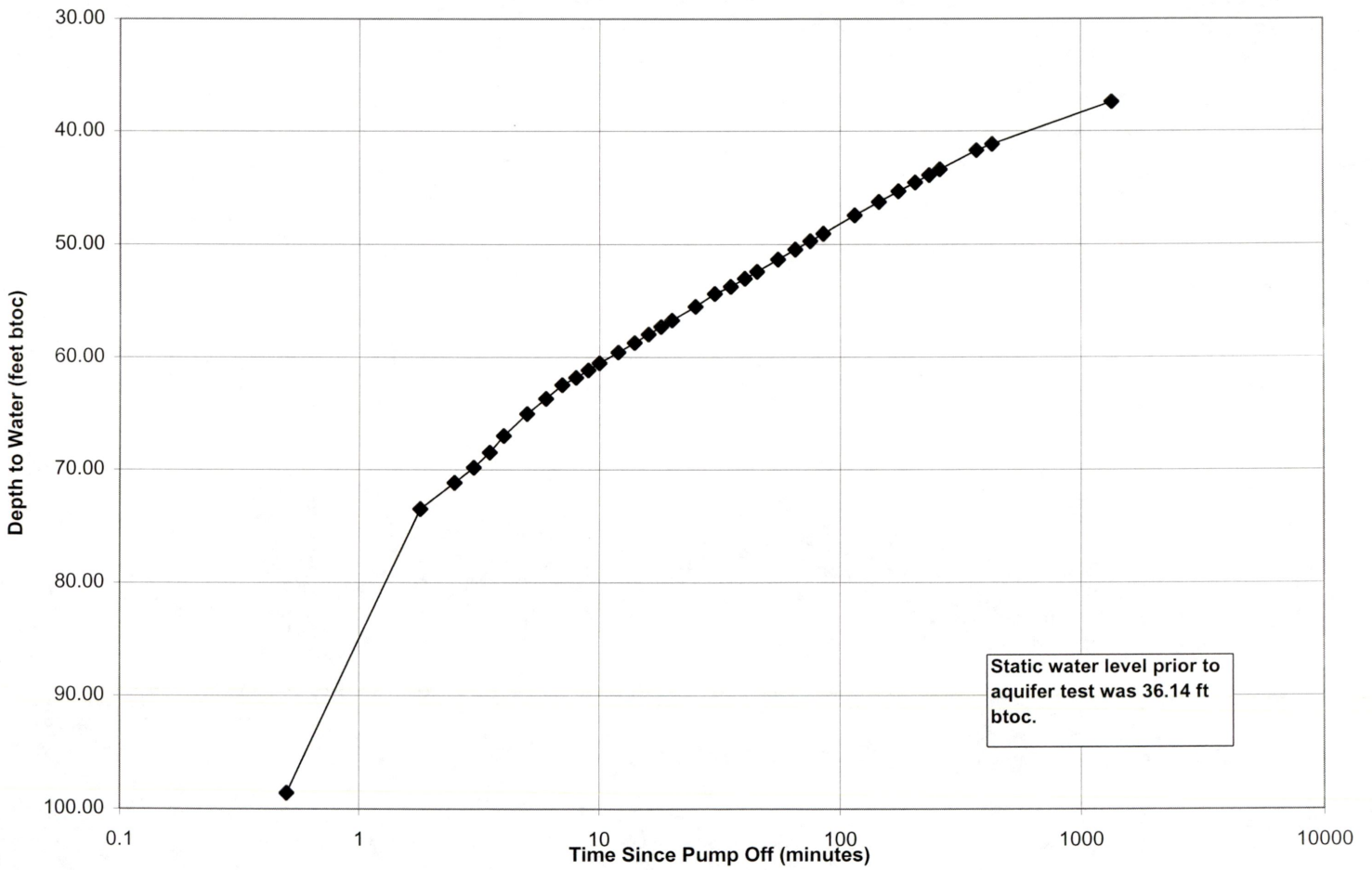
(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment of work performed on this well during the construction dates reported above. The 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 552

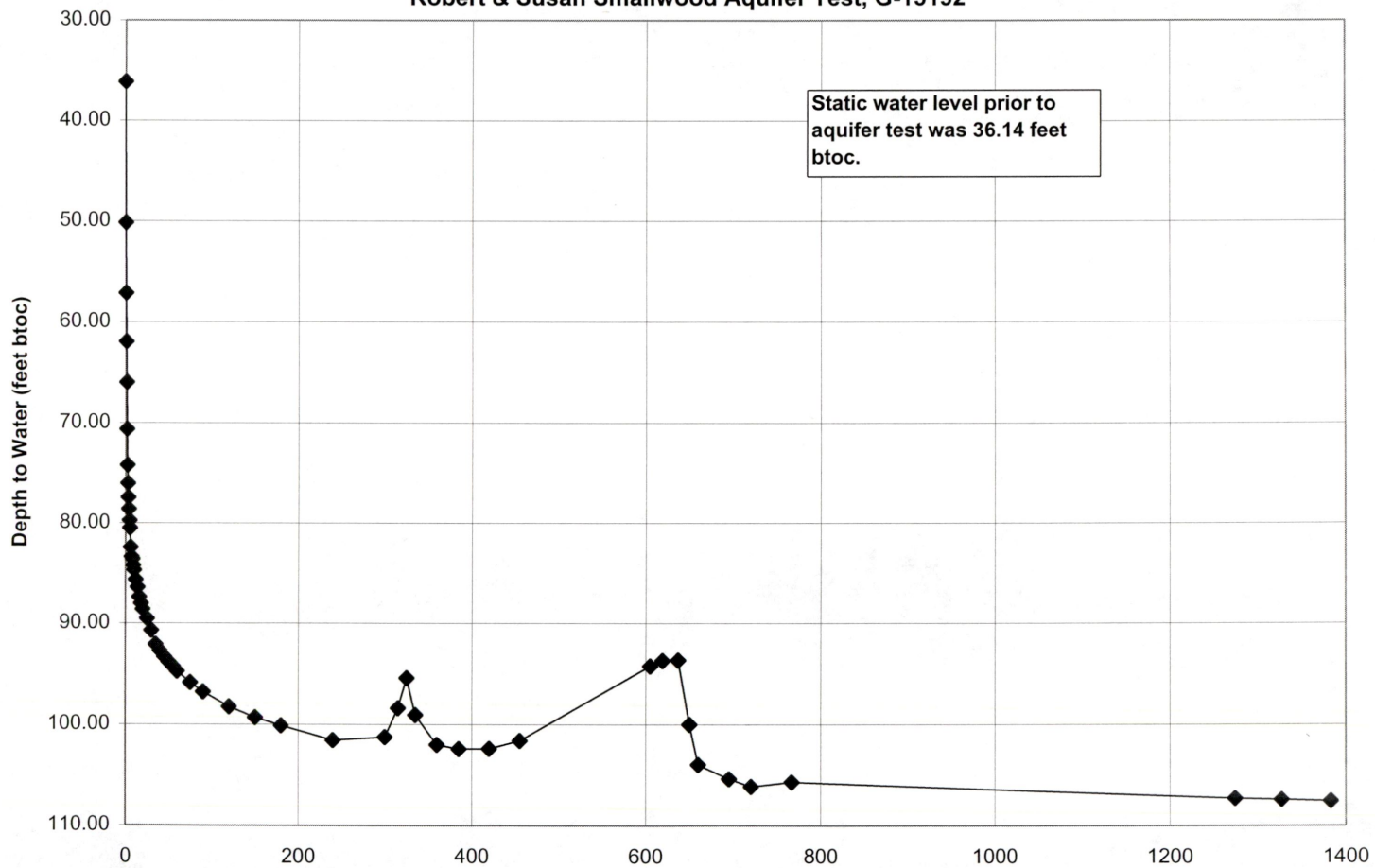
Signed D.P. Brock Date 7-5-87

Recovery Data - Pumping Well, JOSE 1979/JOSE 12820  
Robert & Susan Smallwood Aquifer Test, G-15192

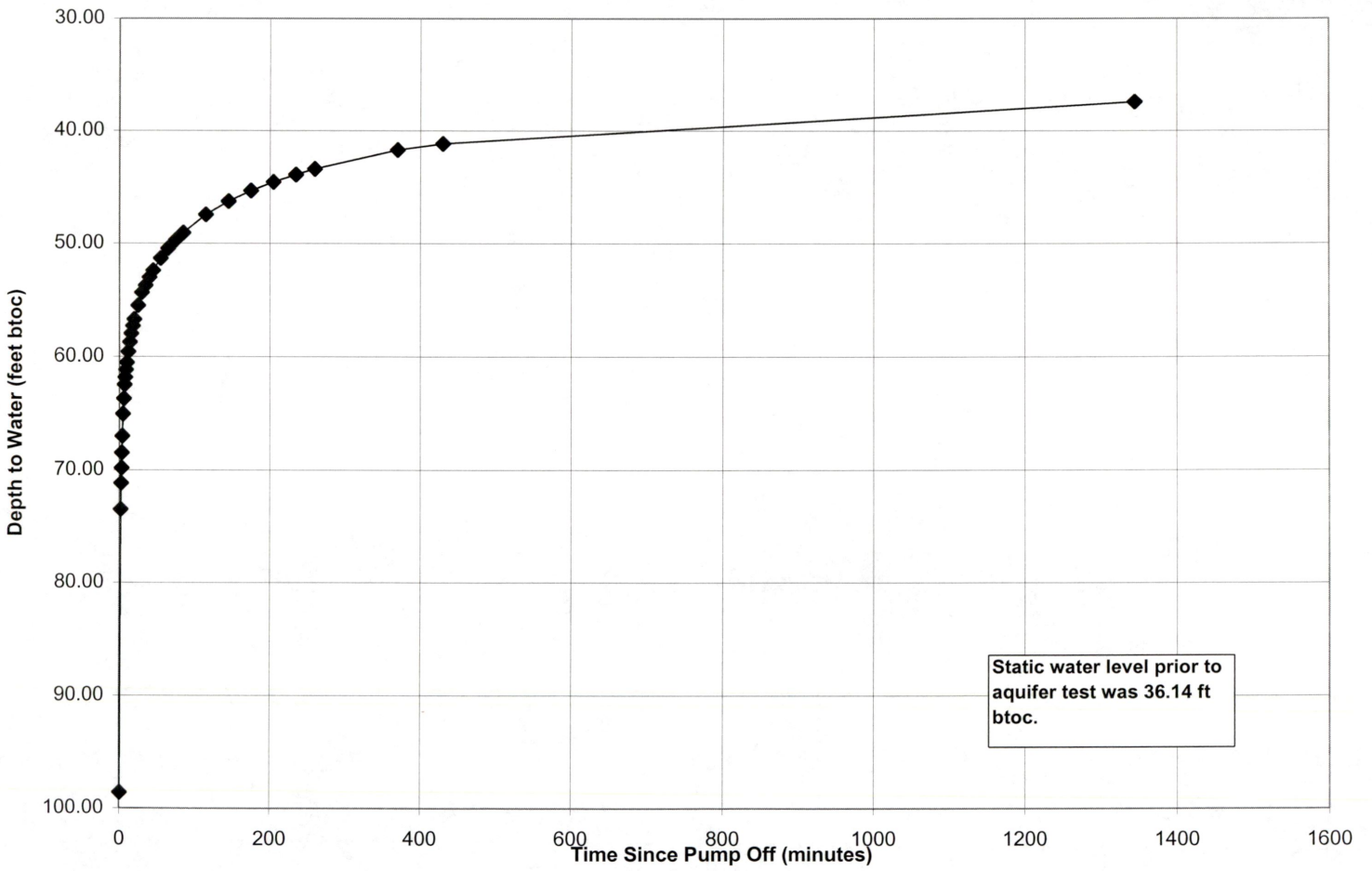




Pumping Well, JOSE 1979/JOSE 12820  
Robert & Susan Smallwood Aquifer Test, G-15192

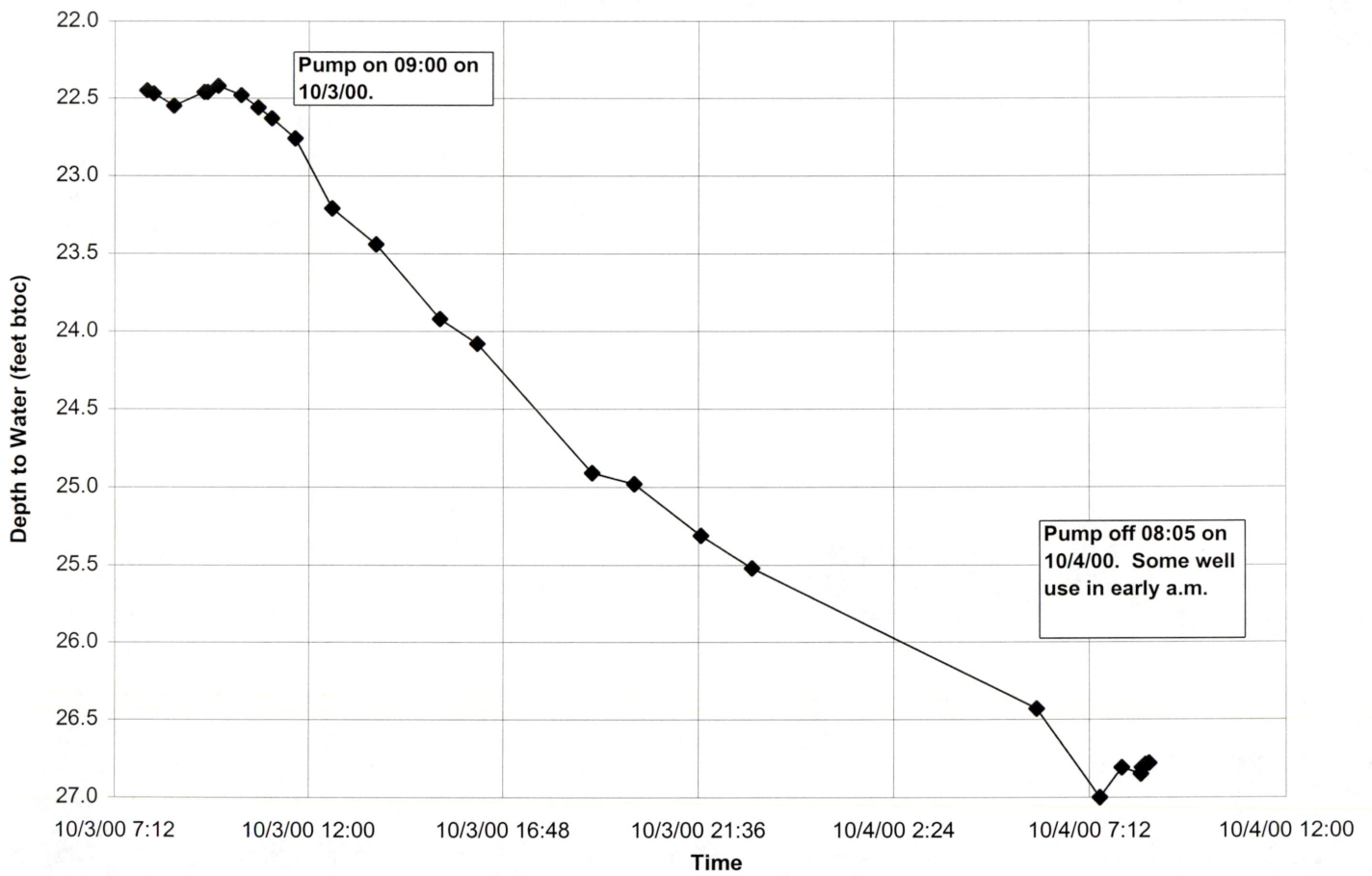


Recovery Data, Pumping Well, JOSE 1979/JOSE 12820  
Robert & Susan Smallwood Aquifer Test, G-15192





Smallwood Domestic Well - JOSE 1978  
Robert & Susan Smallwood Aquifer Test, G-15192



Pumping Well, JOSE 1979/JOSE 12820  
Robert & Susan Smallwood Aquifer Test, G-15192

