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# *Shaner Engineering, Inc.*

CIVIL ENGINEERING IN THE NORTHWEST

MAIL: P.O. BOX 1430 • ROSEBURG, OREGON 97470

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WATER RESOURCES DEPT.  
SALEM, OREGON

October 13, 1997

Oregon Water Resources Dept.  
158 12th Street, N.E.  
Salem, Oregon 97310-0210

RE: Final Proof Survey  
Appl. No. S-80619  
Lyle G. & Gloria A. Thompson

Gentlemen:

Enclosed is the final proof survey of permit to appropriate the public water, Application No. S-80619, Permit No. 52794, owners Lyle G. & Gloria A. Thompson.

Yours truly,

*Bruce A. Shaner*  
Bruce A. Shaner  
Certified Water Rights Examiner

Encl:

1. Claim of Beneficial Use & Site Report
2. Map

cc: Thompson

CERTIFIED RETURN RECEIPT

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WATER RESOURCES DEPT.  
SALEM, OREGON

CLAIM OF BENEFICIAL USE & SITE REPORT

Application No. S-80619  
Permit No. 52794

October 13, 1997

Information:

Permittee & )  
Land Owner )

Lyle G. & Gloria A. Thompson  
425 Country Hill Road  
Roseburg, Oregon 97470  
1-541-679-3311

During the site inspection Lyle Thompson was present. I carefully inspected the site and equipment. Water is being beneficially used for the irrigation of 2.8 acres at a rate of 0.035 CFS.

Source: North Umpqua River

Diversion

Point:

Water is being pumped directly from the North Umpqua River through a screened intake on a submersible pump, thence through a 2" PVC Pipe to the irrigation system's storage tanks & distribution pump. Diversion is North 290 feet and East 30 feet from the East Corner of Section 22. 1/4

Pumps & Motors: There are two pumps and motors:

(1) Point of Diversion Pump that lifts the water to storage tanks and a distribution pump.

Grundfos submersible pump & motor, Model 25S, Type 25550-26, 5 Hp, electric, 230 volts, Serial No. 94431043 (see attached pump curve).

(2) Distribution Pump at Storage tanks. Goulds centrifugal pump with electric motor, model 25Gs, Type 25GS1D, 1 Hp, 230 volts. (See attached pump curve)

Storage Tanks: Two each 1500 gallon concrete tanks, 3000 gallons total capacity.

Pressure Tanks: 86 gallon capacity, "Con Air 220", for irrigation only.

Pipe: As shown on attached map. Pipe from river to storage tanks is 2" P.V.C., 200 PSI rated, buried, some 2200 lineal feet. Irrigation distribution pipe is buried, 1 & 1½" PVC, 700 lineal feet.

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Heads:

The sprinkler heads are Rainbird #30 with 1 1/64" nozzles, a total of 40 each (est.). They have a 40 foot diameter coverage and connect to plug in fixtures on the irrigation laterals. (At 30 PSI each nozzle will spray 4.6 GPM.) (See Computation Sheet.) There are some 10 zones in the computer controlled irrigation system.

The areas not being served by the permanently installed system are serviced by aluminum lines with Rainbird sprinklers and portable aluminum distribution main pipes.

Hose Bibs:

3/4" hose bibs, 6 each, are installed for use of portable sprinklers, etc.

Uses:

Irrigation of lawn and shrubbery and pasture.

Lift:

420 feet elevation rise from river to storage tanks and 20 feet elevation rise from storage tanks to the irrigated areas.

Survey Tie:

The East 1/4 Corner of Section 22 was projected and is as shown on Map.

Special Conditions:

None

Remarks:

Water is being used at the rate of 0.035 CFS, or 15.7 gallons per minute for the irrigation of 2.80 acres.

C.W.R.E. STATEMENT

The final proof survey and inspection of the use as found to be completed under the terms and conditions of Permit No. 52794 was completed by me on September 27, 1997, and the facts contained in this report and accompanying final proof map are correct to the best of my knowledge.



Bruce A. Shaner  
Certified Water Right Examiner

Owner's Statement

I, Lyle G. Thompson, agree to the findings of the CWRE and do submit this site report and map as my Claim of Beneficial Use of the water as provided under the terms and conditions of my Permit No. 52794.

Lyle G. Thompson  
Lyle G. Thompson

Performance Curves

25 GPM

Model 25S

FLOW RANGE: 18 -32 GPM

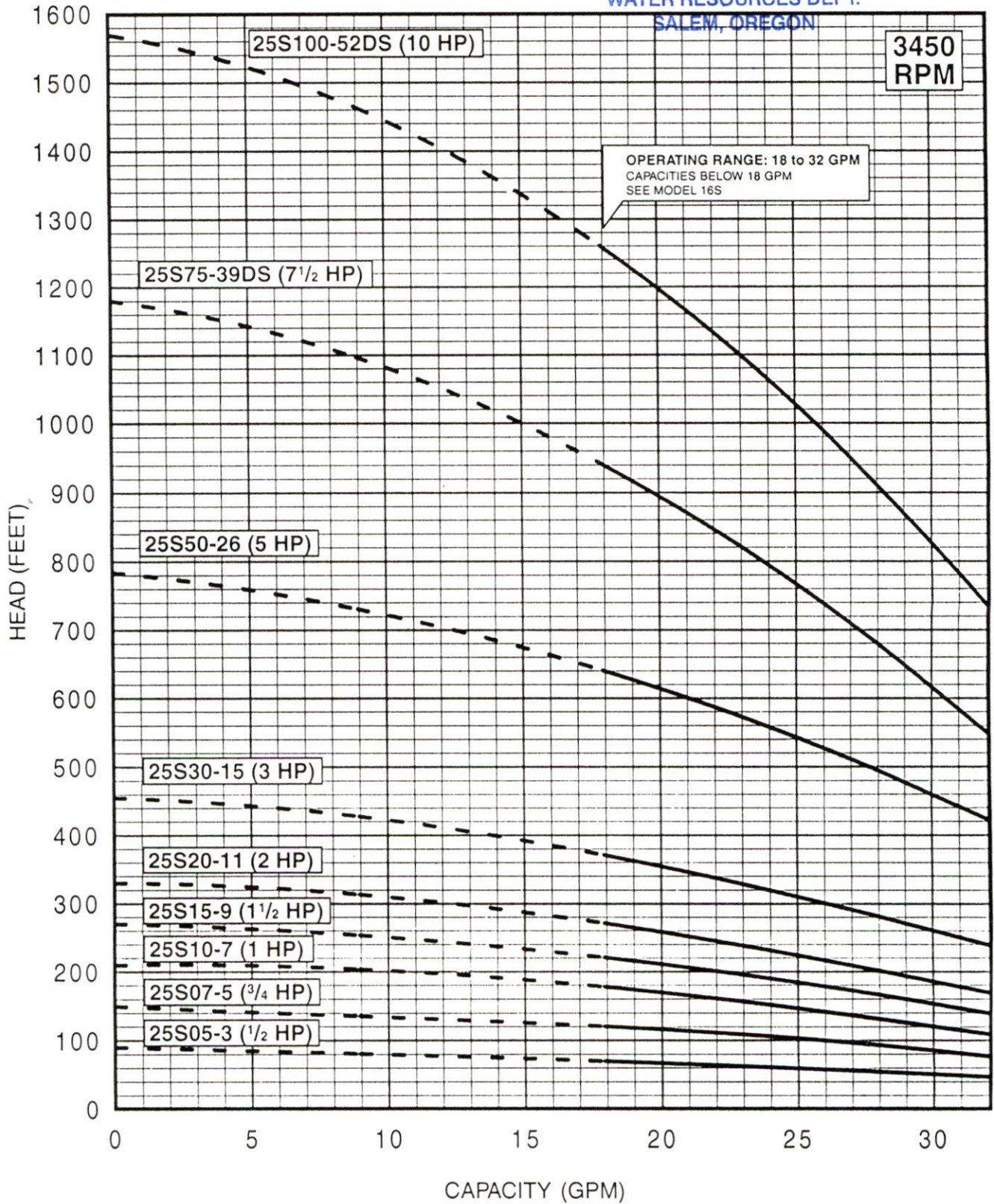
OUTLET SIZE: 1 1/2" NPT

NOMINAL DIA. 4"

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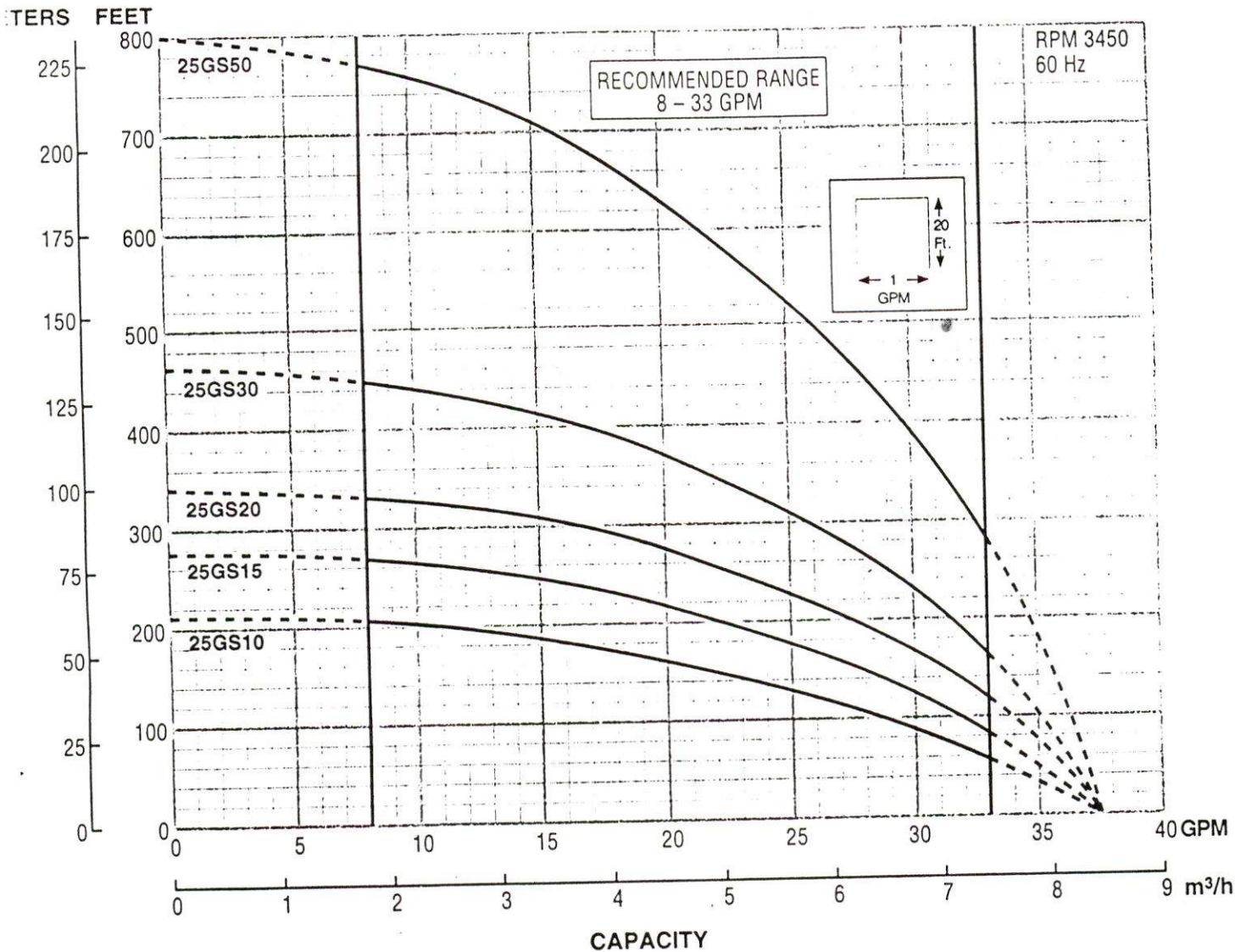
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
4" MOTOR STANDARD, .5 -5 HP/3450 RPM.  
6" MOTOR STANDARD, 7.5 -10HP/3450 RPM.

Performance conforms to ISO 2548 Annex B  
@ 2 ft. min. submergence.

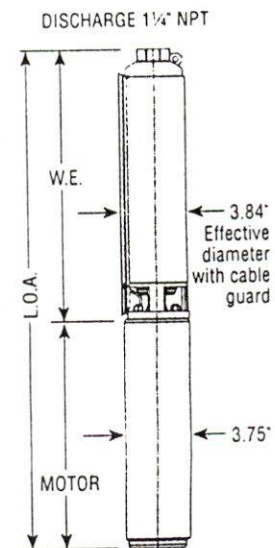




**DIMENSIONS AND WEIGHTS**

Model	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.②	Motor	L.O.A.①	W.E.	Motor	Total
25GS10412	1	1	7	12.2	11.8	24.0	7	23	30
25GS15412	1½	1	9	14.1	13.6	27.7	8	28	36
25GS15422	1½	1	9	14.1	15.1	29.2	8	31	39
25GS15432,34	1½	3	9	14.1	11.8	25.9	8	23	31
25GS20412	2	1	11	16.0	15.1	31.1	9	30	39
25GS20432,34	2	3	11	16.0	13.6	29.6	9	28	37
25GS30412	3	1	15	19.7	23.5	43.2	11	52	63
25GS30432,34	3	3	15	19.7	20.6	40.3	11	43	54
25GS50412	5	1	26	31.3	29.5	60.8	17	69	86
25GS50432,34	5	3	26	31.3	23.6	54.9	17	53	70

② W.E. = water end or pump without motor.  
 ① L.O.A. = length of assembly - complete pump - water end and motor.



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River To Storage Tank Comps. (Grundfos 25 S50-26; 25Hp)

Pressure Requirements                      Head (FH)

Elevation = 420

Mainline Friction Loss = 52

Total = 472 Feet of Head

∴ See Pump Curve = 29 GPM ±

(# Reported Delivery @ Tanks = 29 GPM...)

Storage Tank To Irrigation Head's & Site Comps. (Gould 25 GS10)

(Worst Case) Pressure Requirements = Head (FH)

30 PSI @ Heads = 70

Pipe Friction Loss = 20

Avg. Elevation = ~~20~~ 10

100 Feet of Head

∴ See Pump Curve = 29 GPM ±

(Distribution Mains often looped, <sup>GPM</sup> Seps should be higher)

Permit Rate is 0.035 CFS = 157 ~~150~~ GPM & System exceeds this.  
Sprinkler Capacity = 150 To 200 GPM <sup>(Total)</sup> but is of course, controlled by pump output & computer system...

∴ The Irrigation System is capable of doing required job with proper control & rotation.

B.A. Shaner,  
CWRE