

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-08725

Exam Date: 9/20/2000

1. Current Owner:
RESORT WATER CO INC 165 VILLAGE LN STE A SANDPOINT ID 83864 (208) 255-3046
2. Accompanied by: Tom Trulock
Relationship to Permit Holder: President

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 96-7127, 96-8413, 96-8428, 96-9015 and 96-9129
2. Other water rights with the same point-of-diversion: 96-9015 and 96-9129

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼NW¼ Sec. 20, Twp 58N, Rge 02W, B.M. BONNER County

GROUND WATER SW¼NW¼ Sec. 20, Twp 58N, Rge 02W, B.M. BONNER County

GROUND WATER NW¼SW¼ Sec. 20, Twp 58N, Rge 02W, B.M. BONNER County

Method of Determination: Maps and GPS. POD locations at

96-92-N-232 at 48° 21.824, 116° 37.855 (A0020090)

D0010705 at 48° 21.873, 116° 37.926 (A0020092)

D0010706 at 48° 21.923, 116° 38.010 (A0020091)

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be

☒ 1:24,000 or greater.☒ Aerial Photo Attached (required for irrigation of 10+ acres).☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
96-92-N-232	GRUNDFOS	5		60S	
D0010705		5			
D0010706	GRUNDFOS	2		75S	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
METERS ON SYSTEM	SENSUS					

2. Measurements:

WELL 96-92-N-232 MEASURED AT 56 GPM

D0010705 MEASURED AT 98 GPM

D0010706 MEASURED AT 59 GPM

FLOW FOR LICENSE WAS MEASURED DURING 2000 EXAM. PUMP CURVES SHOWING THE DIFFERENCE IN FLOW RATES FROM 2000 TO 2016 ATTACHED. FLOWS WERE DIFFERENT BECAUSE OF REMODELED SYSTEM.

E. FLOW CALCULATIONS

Measured Method: PUMP CURVES ATTACHED

 X Additional Computation Sheets Attached**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ $V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$ $V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$

2. Volume Calculations for Other Uses: SEE FIELD EXAM IN BACKFILE

G. NARRATIVE/REMARKS/COMMENTS

IDWR field examiner Wayne Baldwin performed exam on this permit during the summer of 2000. In his field exam report he said the flow rate from well 96-92-N-232 was 80 gpm or 0.18 cfs that was measured by a flow meter. He also wrote down annual volumes for the hotel, restaurant, and 197 condos with an overall annual volume of 123.7 acre feet. Report recommended amendment to municipal and had 3 photos from the field exam. The file was then sent to the State Office for licensing. In 2016 it was discovered that the file still needed to be licensed and a re-examination should take place by the Northern Office. The re-examination would try to confirm the flow measurement Mr. Baldwin got back in 2000, verify amendment to municipal, and get a better understanding of the system along with more pictures.

During the re-examination on October 19, 2016 it was found that the well had a different sized pump than what was there in 2000. Mr. Trulock, the owner, said back in 2000 there was 3hp pump in the well and now there was a 5hp. The system had a flow meter on each well and 96-92-N-232 produced 56 gpm during exam with 5hp pump. That brought into question Mr. Baldwin's flow rate with a smaller pump back in 2000. I took this question to Scott McNee, the resorts engineer about the difference in flow rates. He said before 2006 there was a lower pump house that required less hydraulic head and therefore could produce more water. He provided 2 pump curves showing the difference between the 3hp pump and 5hp pump in relation to where the pump house was located at. This evidence will allow IDWR to issue the license for 80 gpm or 0.18 cfs.

The water system was also served by 2 additional wells, D0010705 and D0010706. During the exam I performed flow measurements on them for additional information for the files. Well D0010705 had a 5hp pump and had a flow rate of 98 gpm. Well D0010706 had a 2hp pump and had a flow rate of 59 gpm. Those flow rates will just be for reference and will not be used for flow rates on license because they were drilled after the development period. These two wells will be added onto license through and amendment as additional points of diversion. The system feed's 3 reservoirs with a total storage capacity of 300,000 gallons.

Overlap for this water right might be confusing because all pervious rights have no overlap. This right will have two overlap conditions, one for all groundwater rights and one for all of the rights. There are two additional groundwater rights that will be overlapped with this one. This right will be given 0.18 cfs with annual volume of 124 af. Water right 96-9129 was licensed out of order and given a diversion rate of 0.62 cfs with no annual volume. 0.62 cfs running continuously would give an annual volume of 449 af. Right 96-9015 for commercial was given a diversion rate of 0.02 cfs with annual volume of 0.8 af. Overlap condition for groundwater rights will be as follows; 96-8725, 96-9015 and 96-9129 when combined cannot exceed 0.62 cfs (system capacity) and an annual volume of 449 af.

A second overlap will be added to account for surface water rights that are now used as a backup source for the system. Because the system capacity is known from water right 96-9129, the overlap for all rights will be limited to that. That overlap will be as follows; 96-7127, 96-8413, 96-8428, 96-8725 96-9015, and 96-9129 when combined cannot exceed 0.62 cfs with an annual volume of 449 af.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	0.18 CFS	124.0 AF
	<u>Totals:</u>	0.180 CFS	124.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☒ Add P.D. as reflected above ☐ None
☒ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ None

I. AUTHENTICATION

Field Examiner's Name Adam Finkel Date 4-5-2017

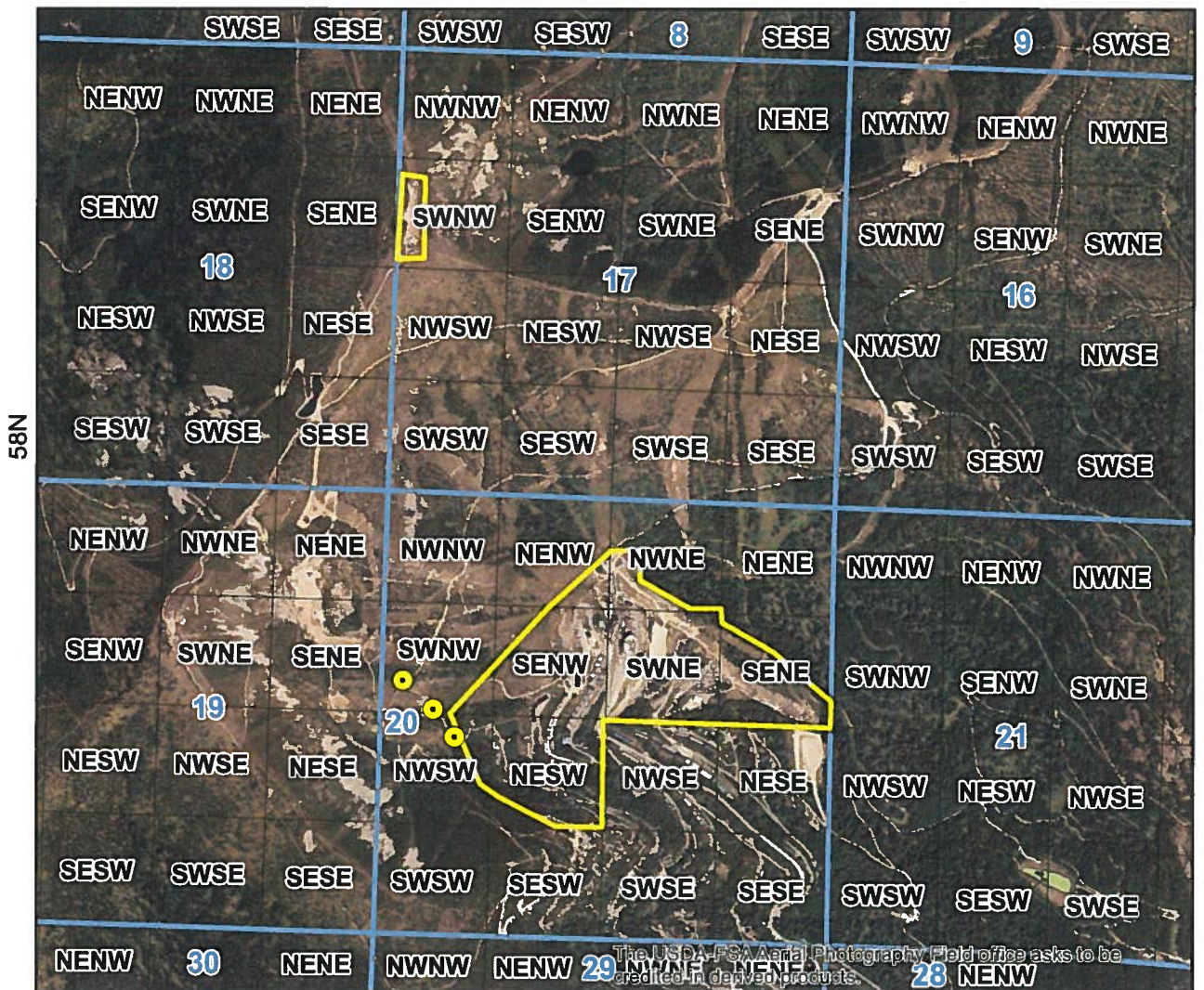
Reviewer Morgan Case Date 4/11/2017

Attachment to Field Exam

96-8725

MUNICIPAL

02W



● Point of Diversion

Water Service Area Boundary

Townships

PLS Sections

0 0.275 0.55 1.1 Miles



RECEIVED

OCT 18 2000

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 96-08725-

1. Owner: Recreation Utilities Co. Phone No. 208) 263-3331

Current Address: PO Box 1921 Sandpoint Id 83864

2. Accompanied by: Wayne Benner EXAM DATE: 9-20-00

Address: Same as above Phone No. _____

Relationship to Permit Holder: Employee

3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

2. Other water rights with the same point of diversion:

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

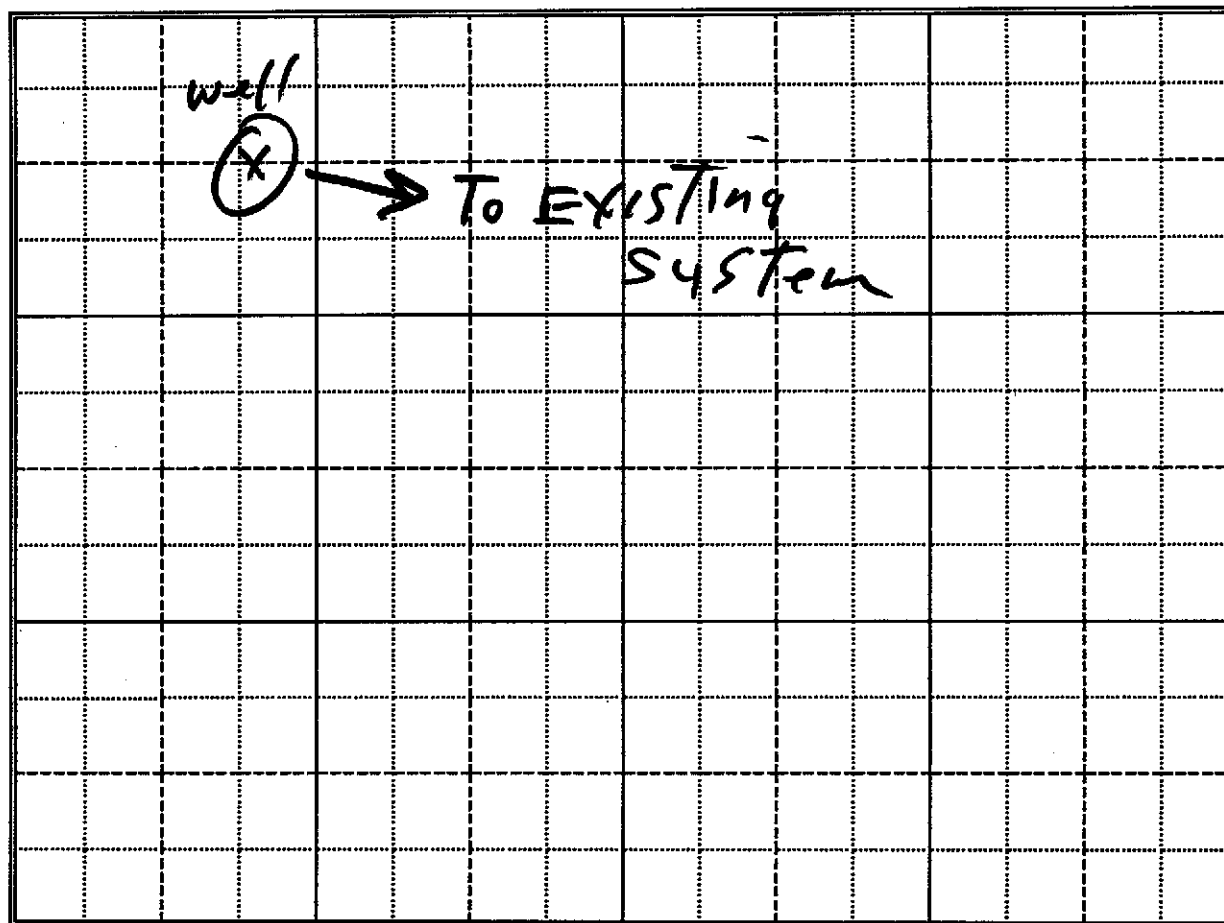
[illegible]

2. Place(s) of Use:

Indicate Method of Determination

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Teranishi	3	2823028110	Sub	2"

*Code to correspond with No. on map and aerial photo

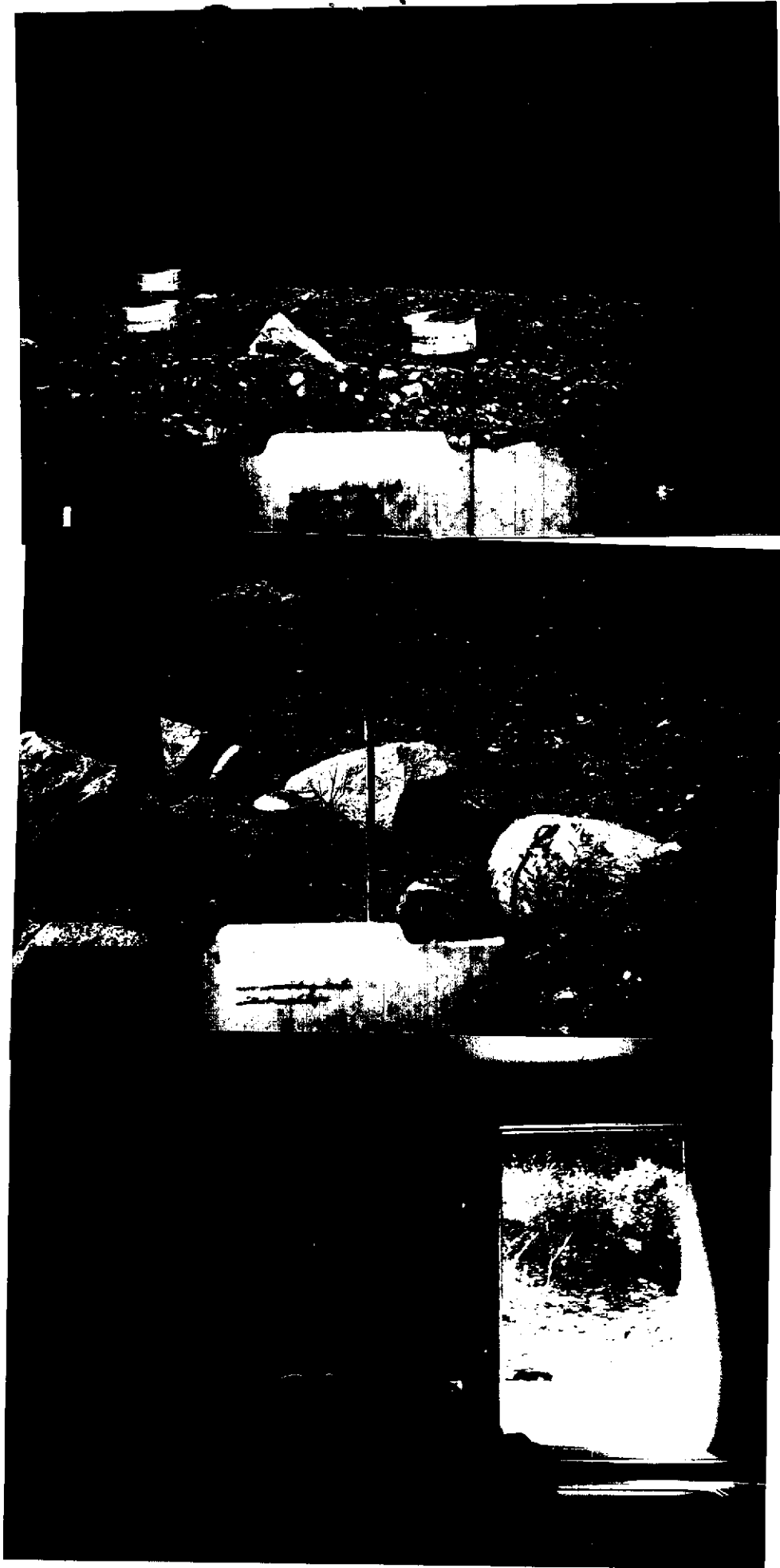
D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

96-08725

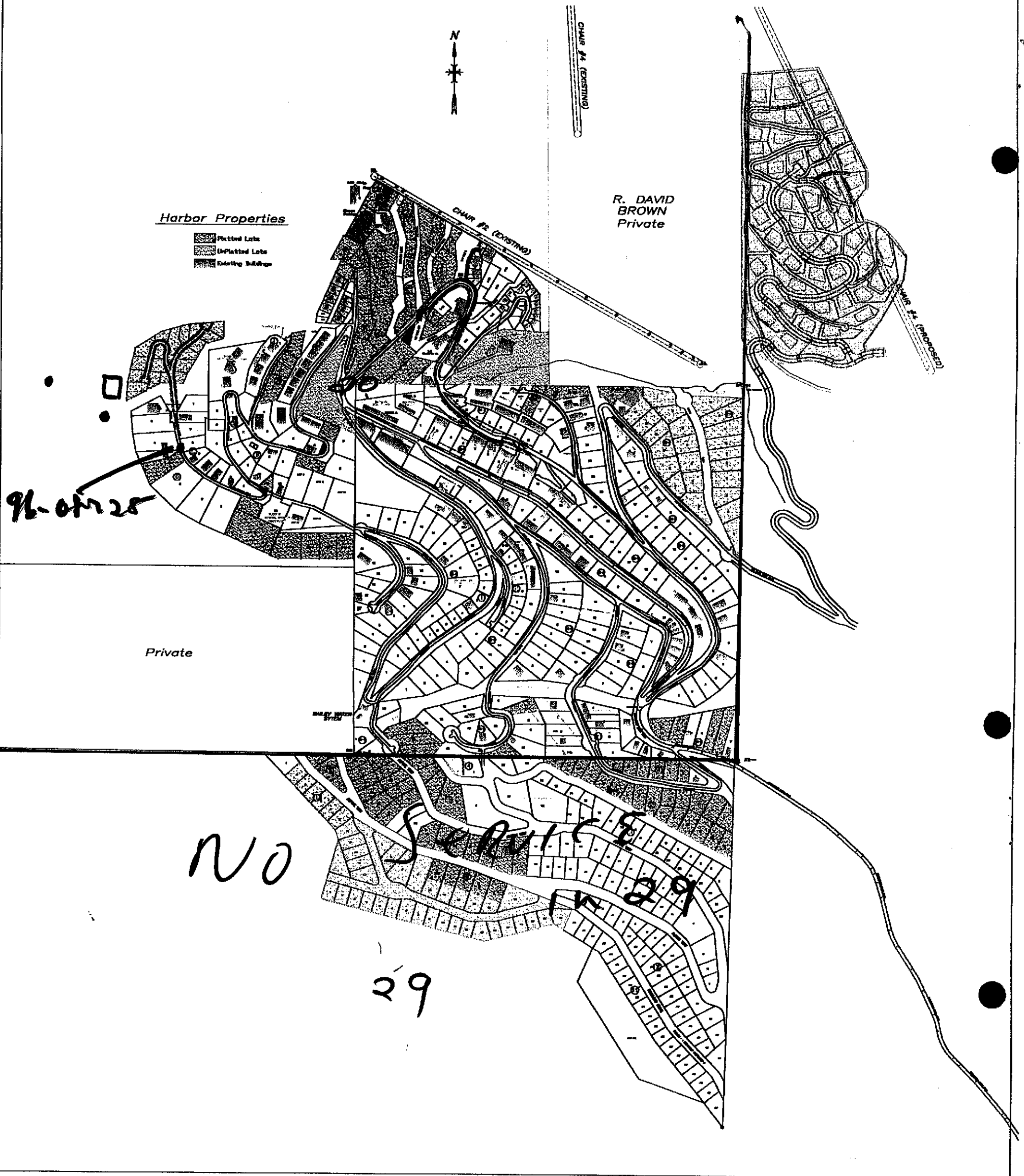


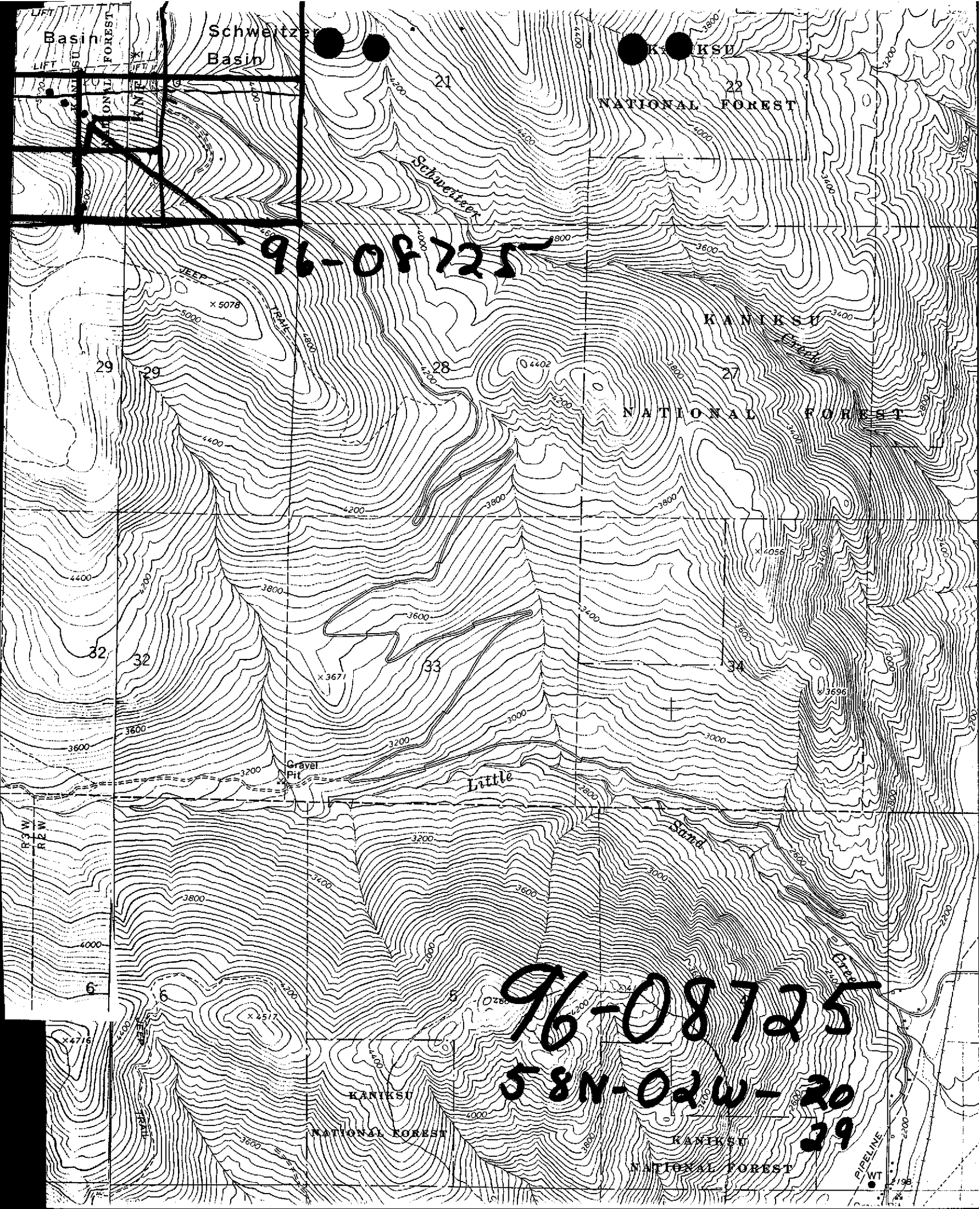
Storage

PO

Pump
House
&
metres

SCHWEITZER MOUNTAIN RESORT





E. NARRATIVE/REMARKS/COMMENTS

There is no service in section 29

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Measured Method:

Additional Computation Sheets Attached

$$\begin{array}{r} \text{Flow meter } 80 \text{ gpm} \\ 80 \times 1.33681 \\ \hline 60 \end{array} = 0.18 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses: Hotel 41 Rooms 60 gpd $\times 41 \text{ Rooms} \times 365 = 208 \text{ AF}$
197 Condos @ .6 1180.2 AF
Restaurant bar 129 pc $\times 200 \times 365 = 207 \text{ AF}$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Commercial	01-01	12-31	0.18	5.5
Domestic	01-01	12-31	0.18	1180.2
Totals:			0.18	1230.7

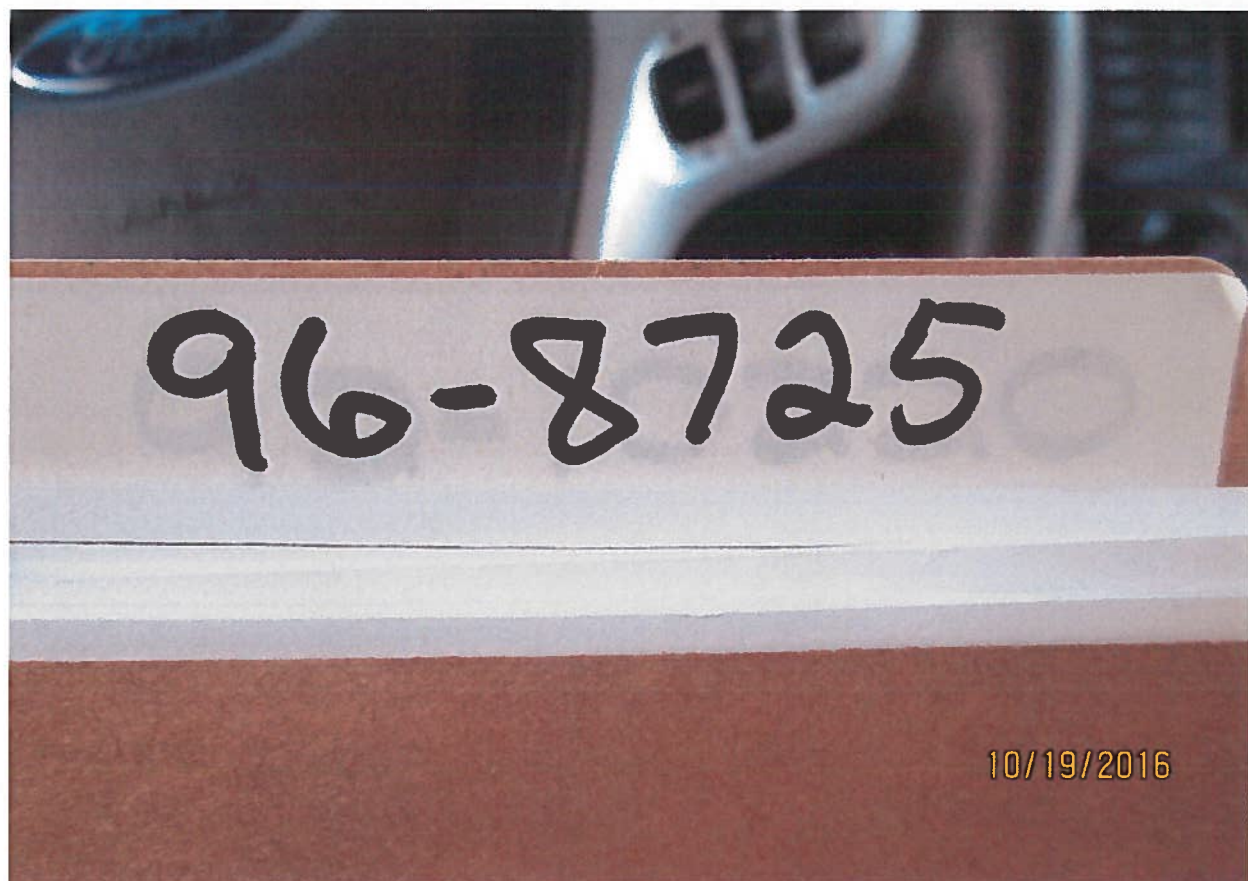
2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATIONField Examiner's Name Wayne Beldar Date 10-12-00

Reviewer _____ Date _____

SEAL



View of hotel and domestic households.



Well #4, 96-92-N-232, given IDWR tag A0020090.



Flowmeter for well #4.



Well #5, D0010705, given IDWR tag A0020092





Flowmeter for well #5.



5 hp pump in well's #4 & #5.



Well #6, D0010706, given IDWR tag A0020091





Flowmeter for well #6.



2 hp pump in well #6.



Pump house.



Top of 60,000 gallon reservoir.

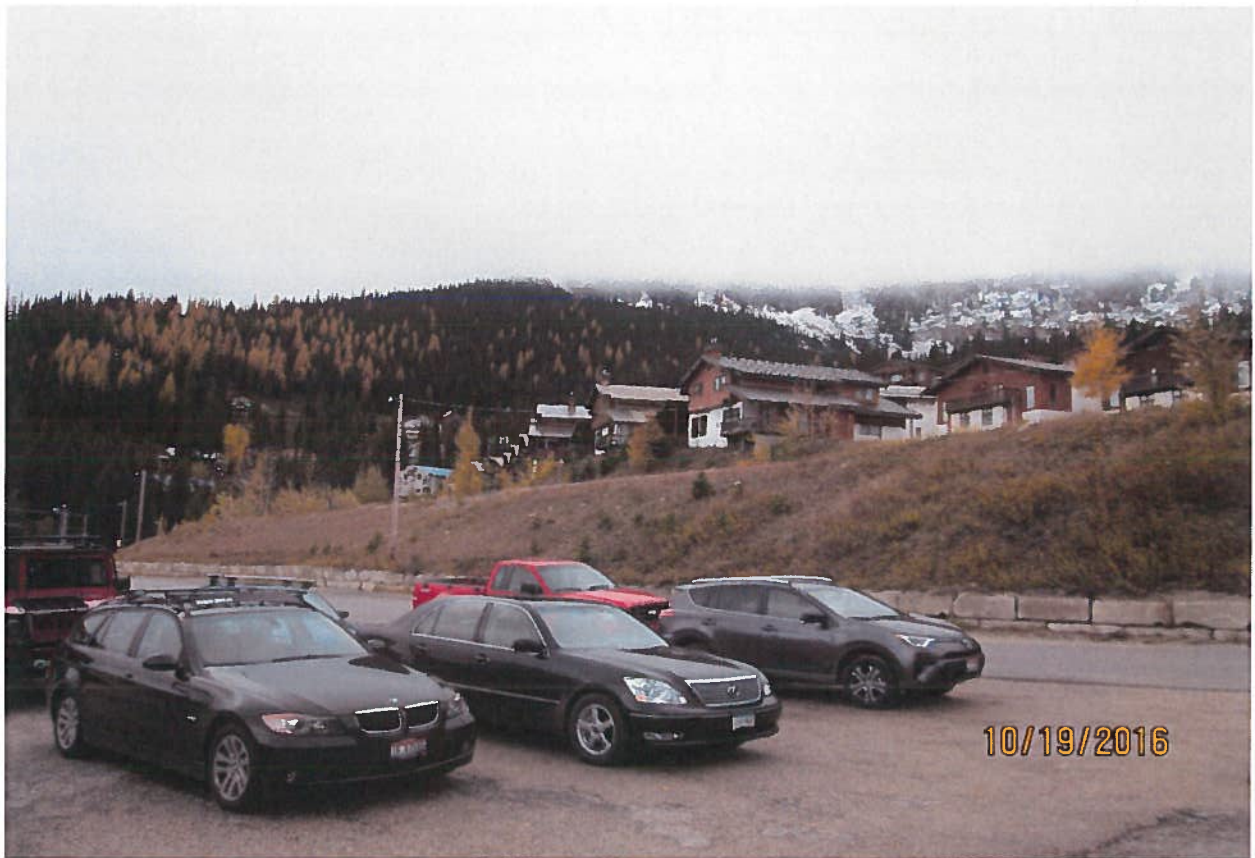


Shops, condos, and hotel.









Frederick, Adam

From: McNee, Scott <smcnee@to-engineers.com>
Sent: Wednesday, February 08, 2017 11:03 AM
To: Frederick, Adam
Cc: Trulock, Tom (ttrulock@schweitzer.com)
Subject: Schweitzer Wells
Attachments: HPSCANNER0119.pdf

Adam:

The attached record drawing shows how Wells #4, #5 and #6 are connected. I am working on getting information on the Springs.

SCOTT McNEE, PE | *Project Manager*



T-O ENGINEERS

280 W Prairie Ave | Coeur d'Alene, Idaho 83815

D 208.762.3644 M 208.661.2229

www.to-engineers.com



THIS E-MAIL MAY BE CONFIDENTIAL: This e-mail, including any attachments, may contain information that is confidential and/or non-public information. It is intended to be conveyed only to the designated recipient or recipients. If you are not an intended recipient of this message, please (a) do not read, copy or disclose the contents of this communication to others, (b) notify the sender at (208) 762-3644, and (c) return the message and delete it from your system. Unauthorized use, dissemination, distribution, or reproduction of this message is strictly prohibited and may be unlawful. Thank you.

RECEIVED

ATTACHMENT

FEB 08 2017

IDWR/SOUTHERN

RESERVOIR OUTLET PIPING

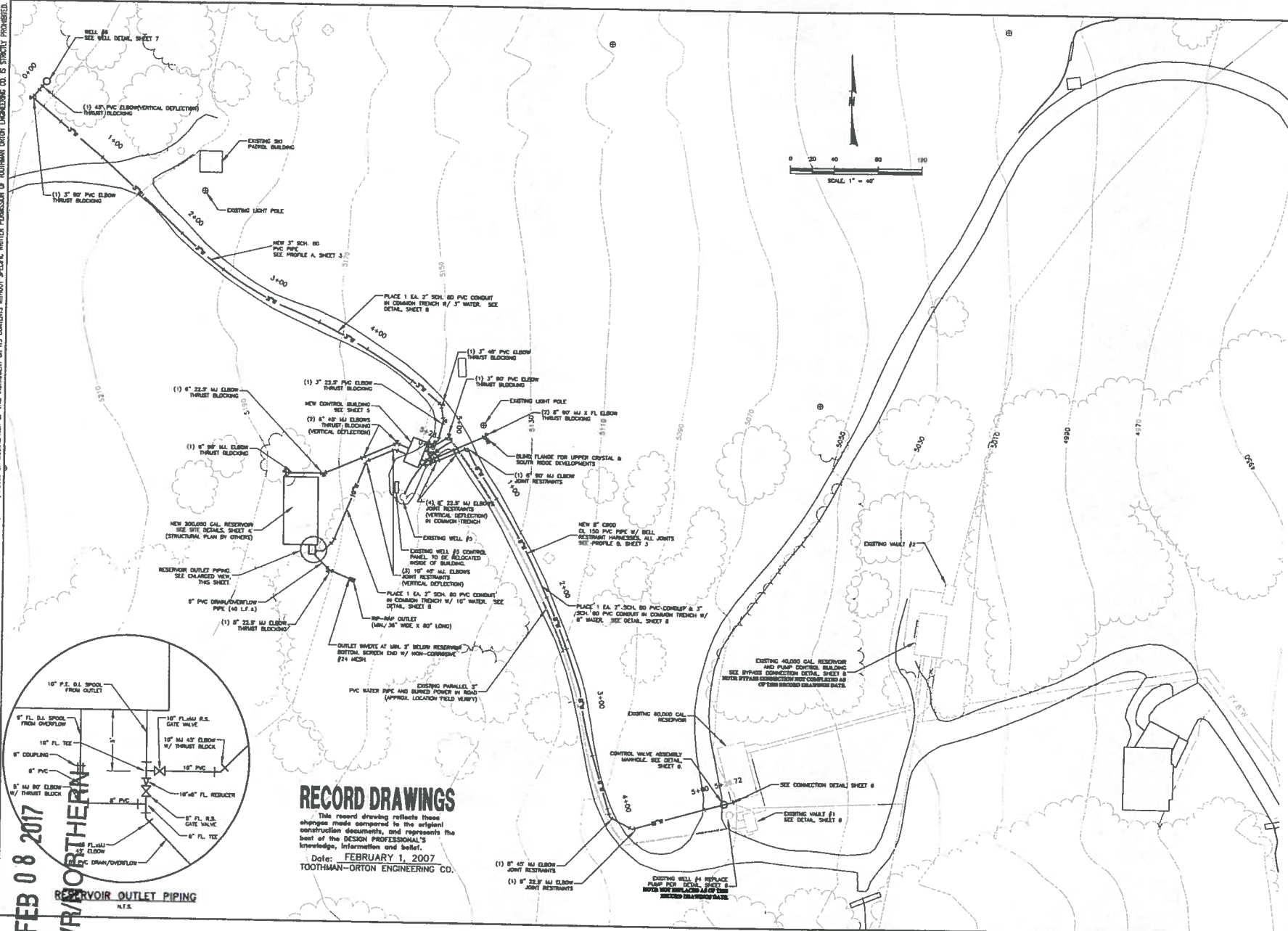
N.T.S.

RECORD DRAWINGS

This record drawing reflects those changes made compared to the original construction documents, and represents the best of the DESIGN PROFESSIONAL'S knowledge, information and belief.

Date: FEBRUARY 1, 2007

TOOTHMAN-ORTON ENGINEERING CO.



DATE	BY	REVISIONS
12/20/06	JAW	1. RESERVOIR PIPING AND PUMP CONTROL BUILDING
12/20/06	JAW	2. WELL CONTROL PANEL LOCATION
12/20/06	JAW	3. RECORD DRAWINGS
12/20/06	JAW	4. APPROVED
12/20/06	JAW	5. APPROVED

TOOTHMAN-ORTON ENGINEERING COMPANY
CONSULTING ENGINEERS, SURVEYORS AND PLANNERS
WEST 280 PHAINE AVENUE
SUITE 100
CALIFORNIA 94504
TEL: (925) 762-3444
FAX: (925) 762-3708

**SCHWEITZER MOUNTAIN RESORT
WATER SYSTEM IMPROVEMENTS 2005
OVERALL LAYOUT PLAN**

DATE: 1/1/07
PROJECT: 00007
SHEET 2 OF 8

Frederick, Adam

From: McNee, Scott <smcnee@to-engineers.com>
Sent: Monday, January 16, 2017 1:50 PM
To: Frederick, Adam
Cc: Trulock, Tom (ttrulock@schweitzer.com)
Subject: Schweitzer - Well #4 Pump Curves for Proof of Beneficial Use
Attachments: Well #4 Pump Curves.pdf

Hi Adam:

As a follow-up to your telephone call last week, I have tried to find information on the pump that would have been in the well during the 2000 field visit. I was not able to find a make or model #, but do know that it was a 3 HP submersible pump. At that time Well #4 pumped to Schweitzer's lower reservoir, which is at a lower elevation than the newer upper reservoir. So, I am attaching a pump curve for a 3 HP submersible pump, likely similar to the original pump, and have noted the design point for pumping to the lower reservoir. This appears to be close to the flow that was measured (80 gpm) during the 2000 field visit.

The second curve (attached) is for the current Well #4 pump going to the upper reservoir. When you conducted your 2016 field visit, static levels in the well were likely near their lowest point, so I have included the likely range of pump discharge with the varying static levels in the well.

Hope this helps, and feel free to call with any further questions.

Thanks.

SCOTT McNEE, PE | Project Manager



T-O ENGINEERS

280 W Prairie Ave | Coeur d'Alene, Idaho 83815

D 208.762.3644 M 208.661.2229

www.to-engineers.com



THIS E-MAIL MAY BE CONFIDENTIAL: This e-mail, including any attachments, may contain information that is confidential and/or non-public information. It is intended to be conveyed only to the designated recipient or recipients. If you are not an intended recipient of this message, please (a) do not read, copy or disclose the contents of this communication to others, (b) notify the sender at (208) 762-3644, and (c) return the message and delete it from your system. Unauthorized use, dissemination, distribution, or reproduction of this message is strictly prohibited and may be unlawful. Thank you.

Performance Curves

75 GPM

Model 75S

FLOW RANGE: 45 - 95 GPM

OUTLET SIZE: 2" NPT

NOMINAL DIA.: 4"

RECEIVED

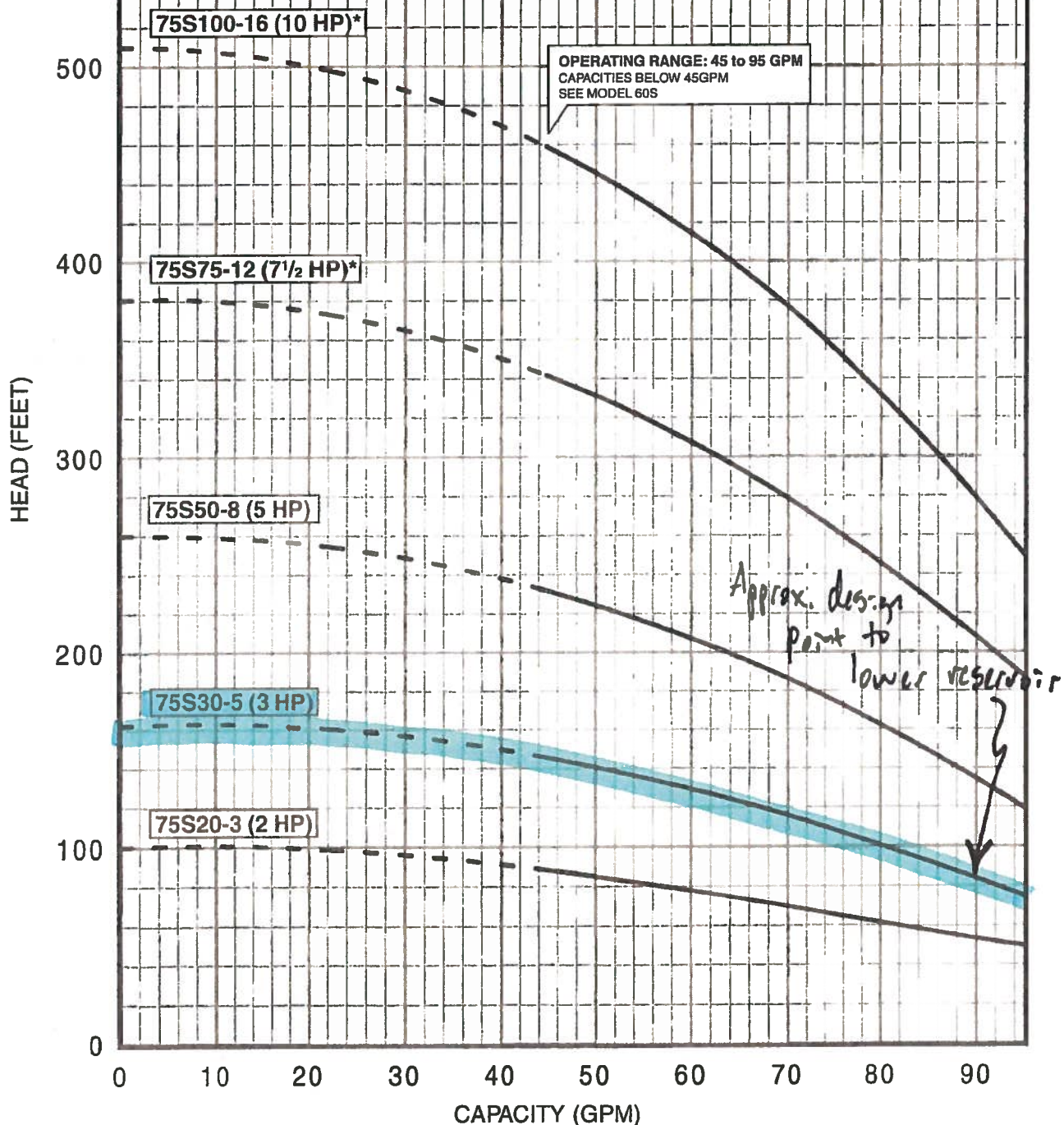
Well # 4 - Similar to Old Pump (Pre 2006)

600

JAN 16 2017

DWR/NORTHERN

3450 RPM



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

4" MOTOR STANDARD, 2-10 Hp 3450 RPM.

* Also available with 6" motor, performance is the same only at Best Efficiency point. Consult factory for actual performance.

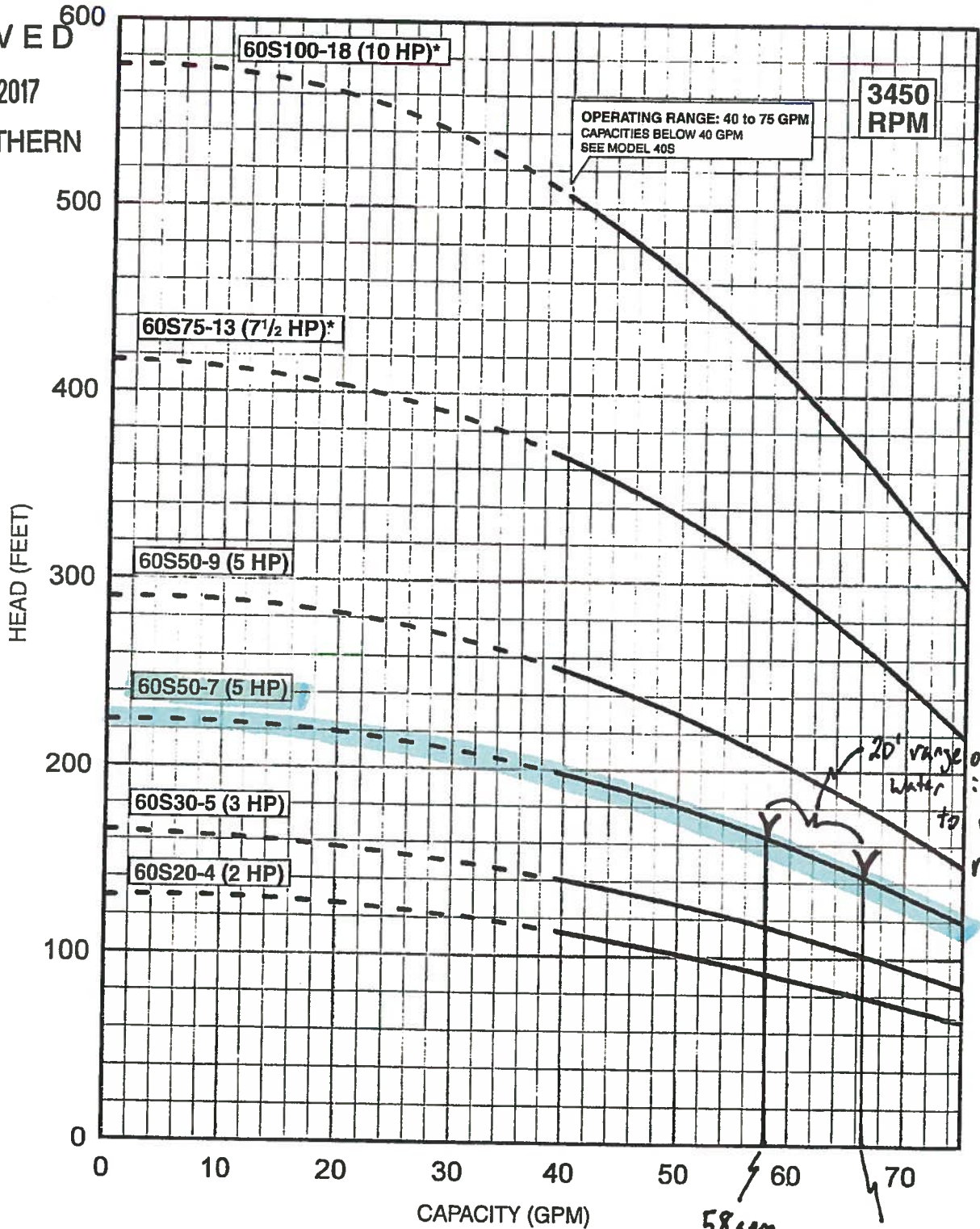
Performance conforms to ISO 2548 Annex B @ 5 ft. min. submergence.

FLOW RANGE: 40 -75 GPM

OUTLET SIZE: 2" NPT

NOMINAL DIA. 4"

RECEIVED
JAN 16 2017
IDWR/NORTHERN



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 3450 RPM.
* Also available with 6" motor.

Performance conforms to ISO 9906, 1999 (E) Annex A
Minimum submergence is 5 feet.

Frederick, Adam

From: McNee, Scott [smcnee@to-engineers.com]
Sent: Monday, October 24, 2016 9:15 AM
To: Frederick, Adam
Subject: RE: Resort Water Company
Attachments: RWC_Well Pump Curves.pdf

Adam:

Wells #4 and #5 have 5 HP pumps. Well #6 has a 2 HP pump. The pump curves are attached.

SCOTT McNEE, PE | *Project Manager*



T-O ENGINEERS

280 W Prairie Ave | Coeur d'Alene, Idaho 83815

D 208.762.3644 M 208.661.2229

www.to-engineers.com



THIS E-MAIL MAY BE CONFIDENTIAL: This e-mail, including any attachments, may contain information that is confidential and/or non-public information. It is intended to be conveyed only to the designated recipient or recipients. If you are not an intended recipient of this message, please (a) do not read, copy or disclose the contents of this communication to others, (b) notify the sender at (208) 762-3644, and (c) return the message and delete it from your system. Unauthorized use, dissemination, distribution, or reproduction of this message is strictly prohibited and may be unlawful. Thank you.

From: Frederick, Adam [<mailto:Adam.Frederick@idwr.idaho.gov>]
Sent: Monday, October 24, 2016 7:55 AM
To: McNee, Scott
Subject: Resort Water Company

Scott,

Could you send me over the pumping curves for the 3 wells along with what horsepower pump is in each of those wells.
Thank you.

Adam Frederick
Senior Water Resource Agent
Idaho Department of Water Resources
Northern Regional Office
Phone 208-762-2800

RECEIVED

PERFORMANCE CURVES

60 GPM

MODEL 60S

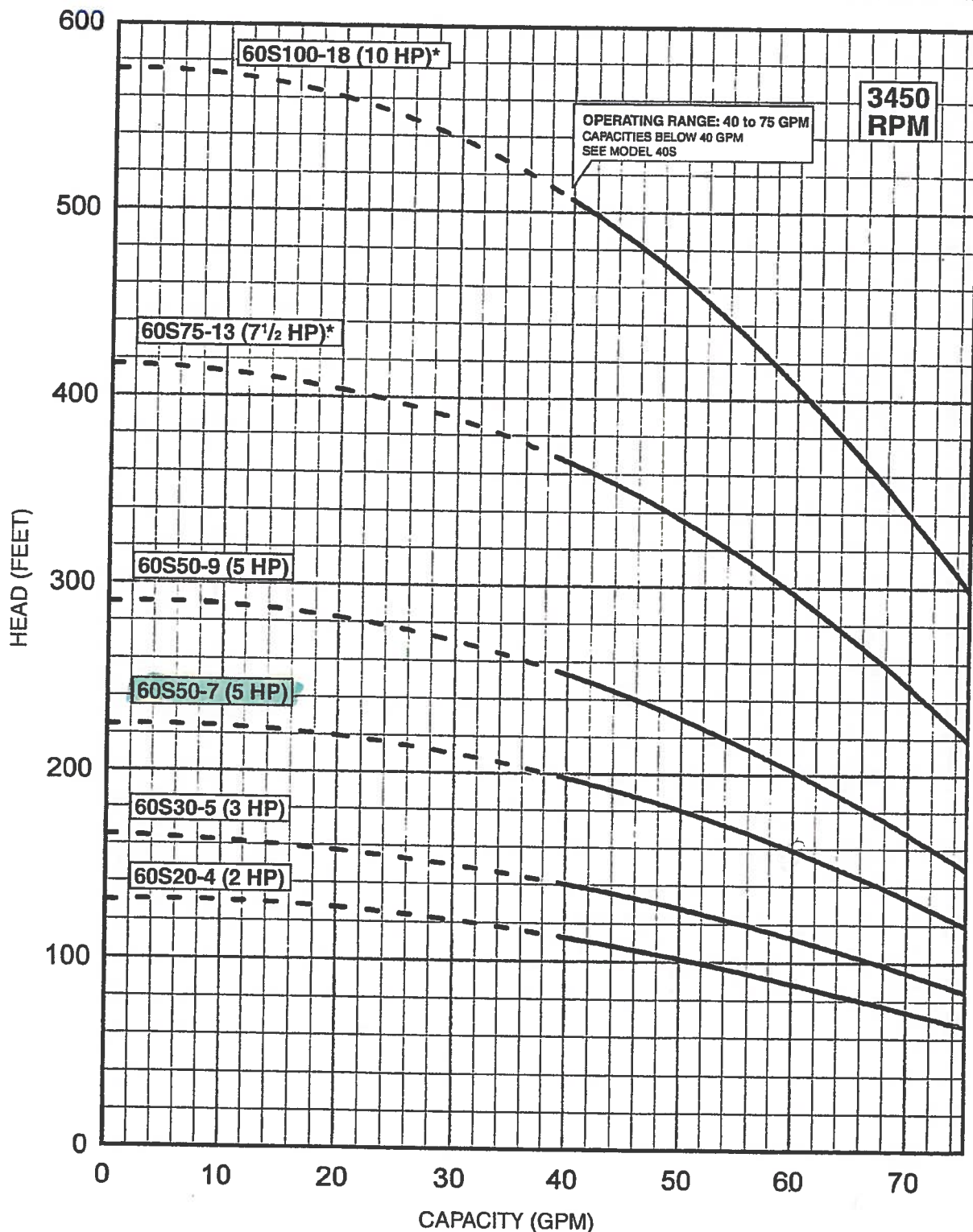
OCT 24 2016
IDWR/NORTHERN
IDWR/NORTHERN

ATTACHMENT

FLOW RANGE: 40 -75 GPM

OUTLET SIZE: 2 " NPT

NOMINAL DIA. 4"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 3450 RPM.
* Also available with 6" motor.

Performance conforms to ISO 9906, 1999 (E) Annex A
Minimum submergence is 5 feet.

RECEIVED

OCT 24 2016

WELL #5

120 WELL SERVICE

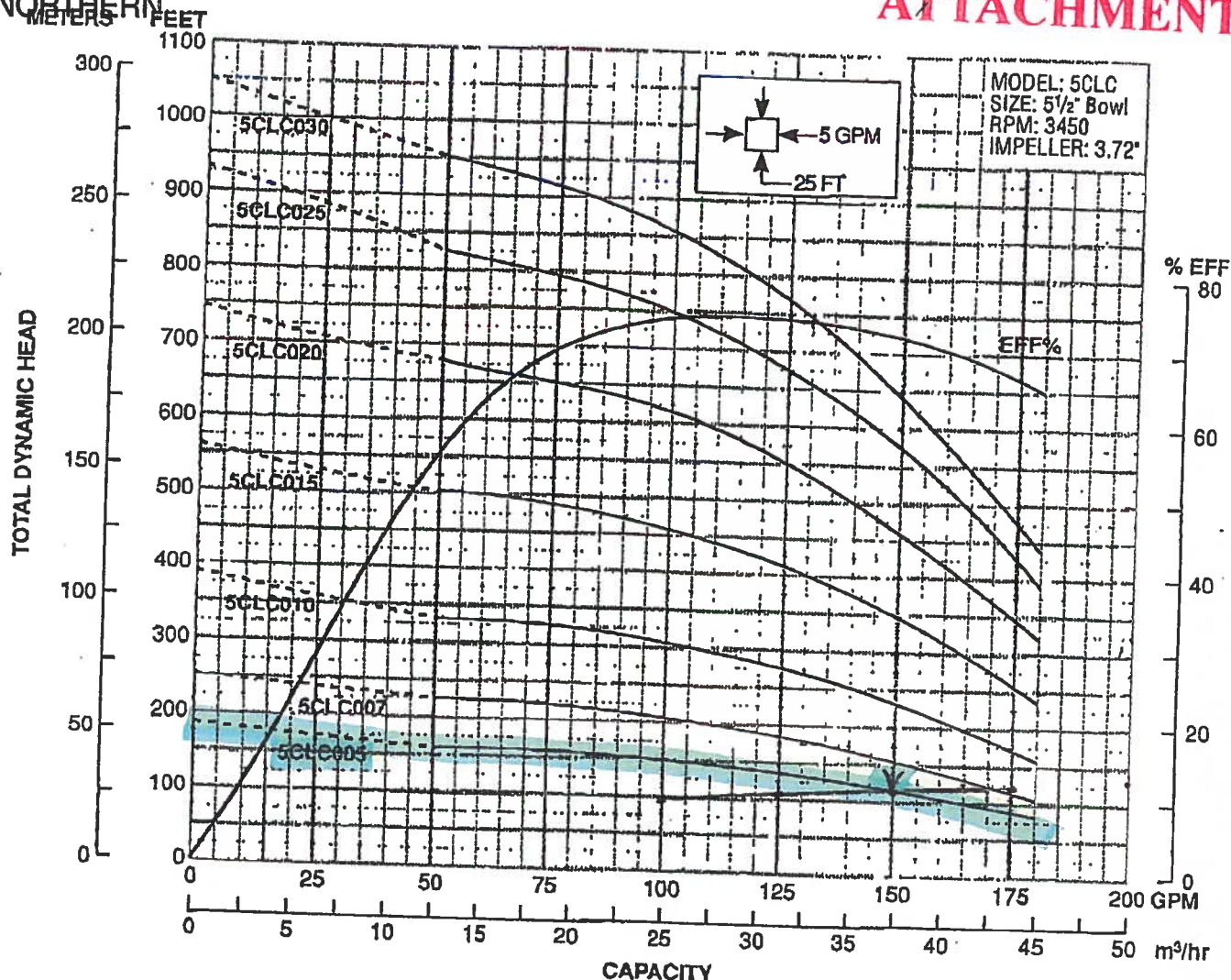
2 7724892

P. 02

Model 5CLC 110 GPM

ATTACHMENT

IDWR/NORTHERN



DIMENSIONS AND WEIGHTS

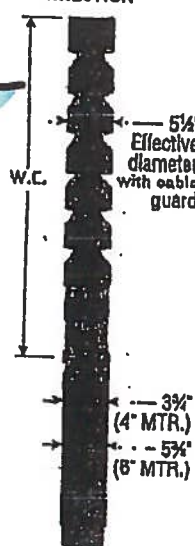
HP	Stages	W.E. Order Number	W.E. Length	W.E. Wt. (lbs.)
5	8	5CLC00544CTB	25 1/4"	73
		5CLC00564CTB	28 1/4"	75
7 1/2	4	5CLC00744CTB	30 3/4"	85
		5CLC00764CTB	32 1/4"	88
10	6	5CLC01064CTB	42 3/4"	114
15	9	5CLC01564CTB	56 3/4"	153
20	12	5CLC02064CTB	71 1/2"	192
25	15	5CLC02564CTB	85 3/4"	231
30	17	5CLC03064CTB	95 1/4"	257

(All dimensions in inches and weights in lbs. Do not use for construction purposes.)

PLEASE NOTE:

- Order motors separately.
- For intermediate horsepower pumps consult factory.
- Solid line is recommended operating range. The dotted line (---) signifies an alternate pump selection is available.
- Please specify all options changes in W.E. order number.

4" NPT DISCHARGE CONNECTION



MATERIALS OF CONSTRUCTION

Part Name	Material
Shaft	ASTM A582 TYPE 416
Coupling	ASTM A582 S41600 CD
Suction Adapter	ASTM A48 CL 40
Discharge Bowl	ASTM A48 CL 30B
Bronze Bearings	ASTM B584
Discharge bowl bearing	ASTM B584
Taperlocks	ASTM A108 GR 101B
Bowl	ASTM A48 CL 30B
Upthrust Collar	ASTM A276 S41400
Impeller	ASTM B584
Fasteners	SAE J429 GR 8
Cable Guard	ASTM A240 S 30400
Suction Strainer	ASTM A240 S 30400

RECEIVED
OCT 24 2016
PERFORMANCE CURVES

75 GPM

Well #6

MODEL 75S

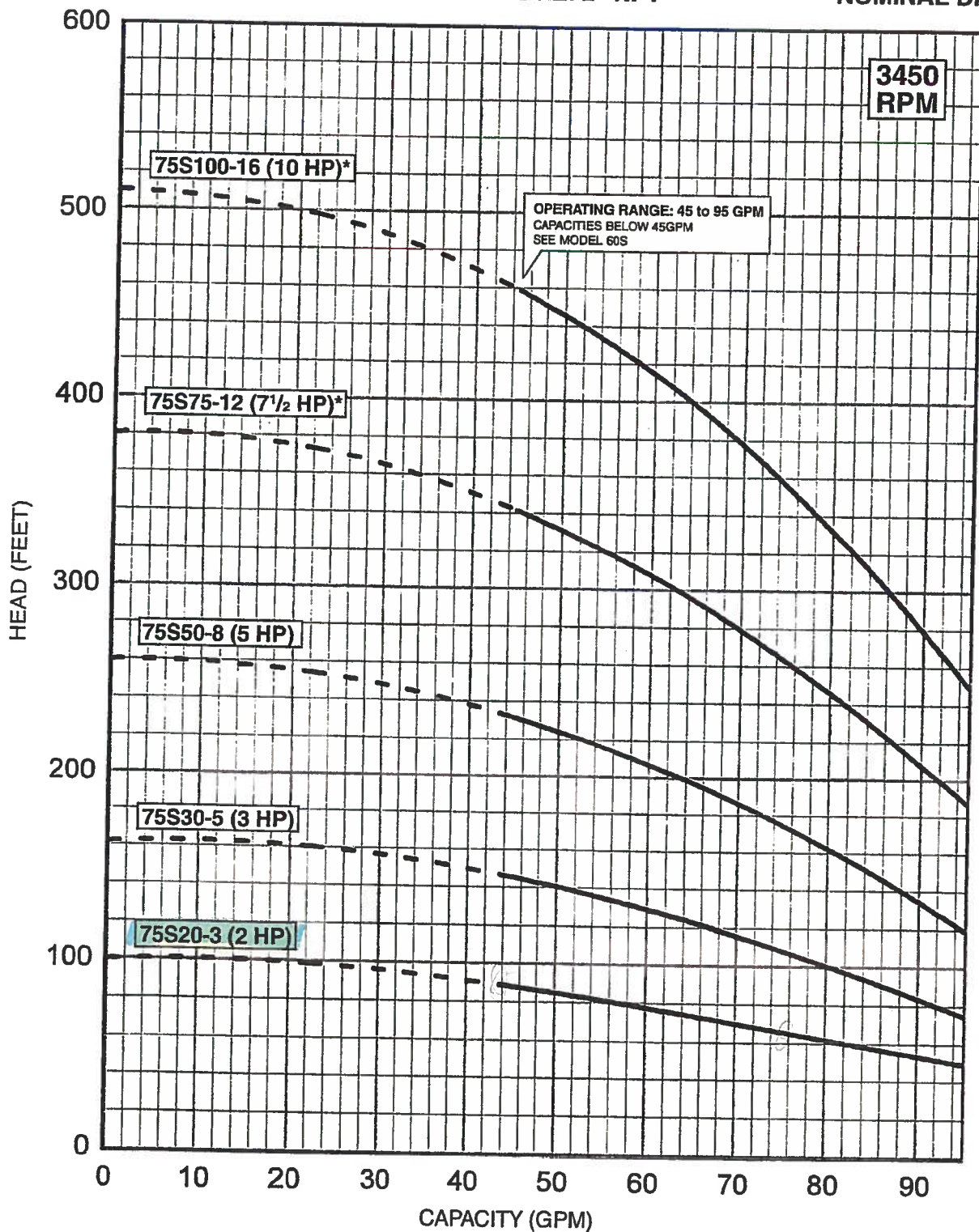
DWR/NORTHERN

ATTACHMENT

FLOW RANGE: 45 - 95 GPM

OUTLET SIZE: 2" NPT

NOMINAL DIA.: 4"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

4" MOTOR STANDARD, 2-10 Hp 3450 RPM.

* Also available with 6" motor, performance is the same only at Best Efficiency point.
Consult factory for actual performance.

Performance conforms to ISO 9906: 1999 (E) Annex A
Minimum submergence is 5 feet.

Case, Morgan

From: McNee, Scott <smcnee@to-engineers.com>
Sent: Monday, August 22, 2016 12:04 PM
To: Frederick, Adam
Cc: Trulock, Tom (ttrulock@schweitzer.com)
Subject: Drillers Reports
Attachments: Drillers Rpts - SMR Wells.pdf

Adam:

Attached are the Drillers Reports for the 3 active wells serving Schweitzer's municipal system. They refer to them as Wells #4, #5 and #6, and those numbers are noted at the top of the reports.

Thanks.

SCOTT McNEE, PE | *Project Manager*



T.O. ENGINEERS

280 W Prairie Ave | Coeur d'Alene, Idaho 83815

D 208.762.3644 M 208.661.2229

www.to-engineers.com



THIS E-MAIL MAY BE CONFIDENTIAL: This e-mail, including any attachments, may contain information that is confidential and/or non-public information. It is intended to be conveyed only to the designated recipient or recipients. If you are not an intended recipient of this message, please (a) do not read, copy or disclose the contents of this communication to others, (b) notify the sender at (208) 762-3644, and (c) return the message and delete it from your system. Unauthorized use, dissemination, distribution, or reproduction of this message is strictly prohibited and may be unlawful. Thank you.

AUG 22 2016

1-017 2.18
B/RO (1)

Well 1

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

ATTACHMENT

#4

IDWR/NORTHERN

1. WELL OWNER
Name Recreation Utilities Company
Address P. O. Box 1921 Sandpoint, ID 83864
Drilling Permt No. 96-92-N-232
Water Right Permt No. _____

2. NATURE OF WORK
☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test ☒ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED
☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION
Casing schedule: ☒ Steel ☐ Concrete ☒ Other 4" p.v.c.
Thickness Diameter From To
.025 inches 6 inches + 2 feet 45 feet
Inches Inches feet feet
Sch. 40 inches 4 inches - 8 feet 157 feet
Inches Inches feet feet
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No skill saw
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation 11/8 inches by 7 inches
Number From To
60 perforations 97 feet 157 feet
perforations feet feet
perforations feet feet
Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet
Gravel packed? ☐ Yes ☐ No Size of gravel _____
Placed from feet to feet
Surface seal depth 30 Material used in seal: ☒ Cement grout
☐ Bentonite ☐ Puddling clay ☐
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port 1/2" pipe plug

6. LOCATION OF WELL
Sketch map location must agree with written location.
N
W E S
Subdivision Name Crystal
Springs Subdivision
Lot No. _____ Block No. _____
County Boundary _____
NW ¼ SW ¼ Sec. 20, T. 58 N R SU N. 2 E L W R

7. WATER LEVEL
Static water level 8 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA
☐ Pump ☐ Baller ☒ Air ☐ Other _____
Discharge G.P.M. Pumping Level Hours Pumped
60 157 1 1/2

9. LITHOLOGIC LOG

Bore Diam.	Depth From	To	Material	Water Yes/No
10	0	2	soil, cobbles	X
0.6	2	25	sand, gravel, cobbles, boulders	X
6	25	90	decomposed granite, brown, 1/2-3/4 m.p.f.	X
6	90	157	broken, gray granite, water at 130'	X

RECEIVED
OCT 19 1992
NORTHERN REGION
IDWR

10. Work started 10-5-92 finished 10-6-92

11. DRILLERS CERTIFICATION
I/we certify that all minimum well construction standards were complied with at the time the rig was removed.
Firm Name Bartholomew Firm No. 052
Drilling
Address W. 13712 Lincoln Date 10-9-92
Spokane, WA 99204
Signed by (FD Operator) [Signature]
and [Signature]
(Operator)

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHOLE COMPLETED APPLICATION TO:

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

AUG 22 2016

Form 238-7

11/97

NOV 2 1993

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

ATTACHMENT

NORTHERN INDIAN 0010706

DRILL LOG SHEET NO. 94-99-N-243

Other IDWR No.

2. OWNER:

Name Resort Holdings, Inc.

Address 10000 Schwarzer Road

City Sandpoint State ID Zip 83864

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W  E
 S
 Twp. 58 North ☒ or South ☐
 Rge. 02 East ☐ or West ☒
 Sec. 20 SW 1/4 SW 1/4 NW 1/4
 Gov't Lot _____ County Banner
 Lat. : : Long. :

Address of Well Site up Schwartzkill
City

10
(Give at least name of road + Distance to Road or Landmark)

Li. _____ Blk. _____ Sub. _____ Name _____

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER					PACK		AMOUNT	METHOD
Material	From	To			Sacks or Pounds			
Cement + gravel	0	52			28 Sacks	therefore		

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 12

Was drive shoe seal tested? ☒ Y ☐ N Shoe Depth(s) 112
How? 412

8. CÂSING/LINER:

Diameter	From	To	Gauge	Material	Casing	Line	Welded	Threaded
2"	+3	112	352	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Method air/perforator
Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Line
83	111	4x1"	~1200			☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
36 " below ground

36. ft. below ground Artesian pressure _____ lb.
Depth flow encountered " _____

11. WELL TESTS:

☐ Pump ☐ Baller

Yield gal./min.	Drawdown	Pumping Level	Time
200 gpm		155	

Water Temp. Cold

Water Quality test or comments: Cold clear Bottom hole temp.

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y
12"	0	10	Silty gravel & sand, cobbles	
12"	10	15	boulder	
12"	15	35	sand, gravel & cobbles	
12"	35	40	boulder	
12"	40	47	sand, gravel & cobbles	
12"	47	52	granite, hard	X
8"	52	67	granite, hard	
8"	67	69	broken granite - 50 gpm	X
11	69	84	granite, hard	
11	84	86	soft, fractured granite	X
11	86	92	hard granite	
11	92	93	soft, fractured granite	X
11	93	105	hard granite	
11	105	115	fractured, Fe-stained granite	X
11	115	120	hard, broken Fe-stained granite	X
8"	120	125	soft, Fe-stained granite	X
8"	125	130	broken Fe-stained zones	X
			200+ gpm	

Completed Depth 135 (Measurable)
Date: Started 10-6-1999 Completed 10-17-1999

13. DRILLER'S CERTIFICATION

We certify that all minimum well construction standards were complied with at the time the tag was removed.

Company Name K&H Drilling, Inc. Firm No. 593

Firm Official D. K. Ketter Date March 77 99

ATTACHMENT

NOV 2 1999

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

NORTHERN REGION

WELL TAG NO. D. 00010705

LONG PERMIT NO. 96-94-N-242

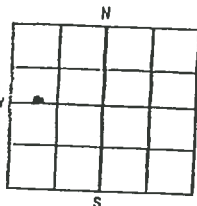
Other IDWR No.

2. OWNER:

Name RESORT HOLDINGS
Address 10000 SCHWEITZER MOUNTAIN RD
City SANDPOINT State ID Zip 83864

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 58N North ☒ or South ☐
Rge. 22W East ☐ or West ☒
Sec. 20 SW 1/4 34 NE 1/4 14 NW 1/4
Gov't Lot _____ County BORNE
Lat: _____ Long: _____

Address of Well Site UP Schweitzer hill
City _____

#5
(Give at least name of road, distance to road or landmark)
Li. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. WELL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Cement grout	0	54	30 gals		rammed

Has drive shoe used? ☒ LI N Shoe Depth(s) 174'

Has drive shoe seal tested? ☒ Y ☐ N How? AIR

CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+3	172	322	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

PERFORATIONS/SCREENS

☒ Perforations Method Air/Perforator
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
54	172	1/4"	1400			☒	☐

STATIC WATER LEVEL OR ARTESIAN PRESSURE:

4 ft. below ground Artesian pressure _____ lb.
Flow encountered _____ ft. Describe access port or
Control devices: _____

RECEIVED

#5

AUG 22 2016

Office Use Only
Inspected by _____
Twp. DWR/NORTHERN Sec. _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____
☐ Air ☐ Flowing Artesian

11. WELL TESTS:

☒ Pump ☐ Bailor

Yield gal/min.	Drawdown	Pumping Level	Time
160	106'	130'	7.5 hrs

Water Temp. 39°F

Water Quality test or comments: Clear / Cold

Bottom hole temp. _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12"	0	50	sand, gravel & boulders	X	
12"	50	54	boulder		X
8"	54	55	boulder		X
8"	55	90	mixed rock, buried tubes	X	
8"	90	95	hard granite		X
8"	95	105	hard granite, thin Fe-stained		X
8"	105	115	hard & soft granite	X	
8"	115	125	hard granite		X
8"	125	130	broken granite	X	
8"	130	134	hard granite		X
8"	134	137	soft, fractured granite	X	
8"	137	139	hard granite		X
8"	139	144	soft, fractured granite	X	
8"	144	147	hard granite		X
8"	147	154	soft, fractured granite	X	
8"	154	156	hard granite		X
8"	156	174	soft, fractured granite	X	

200+ gallons permeable

Completed Depth 174
Date: Started 9-28-99 Completed 10-17-99 (Measurable)

13. DRILLER'S CERTIFICATION

We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name KETTLE D&G INC Firm No. 593

Firm Official Doug Kettle Date Oct 22, 99

Driller or Operator _____