

6/2013

## IN-OFFICE BENEFICIAL USE EXAM REPORT

Permit No. 63-12317

Prepared by VICKY MUSIC

Date 3-4-2014

Same as permit      Different than permit

|                   |                                     |                                                                         |
|-------------------|-------------------------------------|-------------------------------------------------------------------------|
| Owner Name        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> <u>HOA REQUESTED NAME CHANGE</u>    |
| Owner Address     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> <u>HOA REQUESTED ADDRESS CHANGE</u> |
| Source            | <input checked="" type="checkbox"/> | <input type="checkbox"/> _____                                          |
| Tributary         | <input checked="" type="checkbox"/> | <input type="checkbox"/> _____                                          |
| POD               | <input checked="" type="checkbox"/> | <input type="checkbox"/> _____                                          |
| POU               | <input checked="" type="checkbox"/> | <input type="checkbox"/> _____                                          |
| Beneficial Use(s) | <input checked="" type="checkbox"/> | <input type="checkbox"/> _____                                          |

Exam Fee Required for Permitted Rate \$50

Exam Fee Paid \$50

Overlaps ☐ No ☒ Yes, summarize SEE MEMO

Amendment ☒ No ☐ Yes, summarize \_\_\_\_\_

### Technical Confirmation Tools

|               |                                                                |          |                                     |
|---------------|----------------------------------------------------------------|----------|-------------------------------------|
| ArcMap (Bing) | <input checked="" type="checkbox"/>                            | GPS      | <input checked="" type="checkbox"/> |
| Taxlot        | <input checked="" type="checkbox"/>                            | Photos   | <input checked="" type="checkbox"/> |
| Well Log      | <input checked="" type="checkbox"/>                            | Diagrams | <input checked="" type="checkbox"/> |
| Other         | <input checked="" type="checkbox"/> explain: <u>FIELD EXAM</u> |          |                                     |

Conditions/Comments SEE ATTACHED MEMO

Exam Date Entered ☒

Draft License Created ☒

Shapes Updated ☒

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## INTEROFFICE MEMORANDUM

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**TO:** LICENSING FILE 63-12317  
**FROM:** VICKY MUSIC  
**SUBJECT:** FIELD EXAM  
**DATE:** MARCH 4, 2014

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This exam qualifies as an in-house per the Department rules; however, I conducted a field exam to verify the location of the PODs and the place of use. Dale Pippitt, President of the Paradise Pines HOA, accompanied me on the exam. He submitted a request that the contact and address for the rights be changed to the HOA registered agent and secretary, Julene Walker. Proof was timely filed.

The permit was issued for domestic and stockwater uses from ground water from two cold water wells. The domestic is for the internal domestic use in 1 home [though the POU is listed as 5 lots in the conditions] and a recreation center. The recreation center was not built and the cold water was instead plumbed to a changing room by the soaking pool in the same permitted QQ.

Homes have not been built on any of the lots but all are stubbed in, according to Dale. Three of the four lots [lots 3-5?] were covered under a lapsed permit, 63-12229. The Department destroyed the file per procedure, and there are no backfiles. I don't know which lot was intended to be licensed and I can't find a tax Lot 1 referred to in the permit in ArcMap. No stockwater was present the day of the exam but stockwater troughs were present on Lot 3. I recommend that the domestic and stockwater POUs remain the 4 lots, lots 3-6.

The PODs are two cold water wells that are also the PODs for right no. 63-10559. The GPS coordinates are: well no. 1 -- N 43.55469, W -115.27507; well no. 2 – N 43.55455, W - 115.27508.

Each of the wells is fitted with the same make and motor pump and motor. The pumps for both wells were replaced in 2006 with 3 hp submersible Sta-rite pumps. Water from the wells is pumped to a 48,000 gallon storage tank through 2" steel or PVC pipe. The water flows down to the distribution system in steel pipe due to the higher pressure that develops as it flows downhill. It passes through a pressure reduction station and is piped to the various houses and another structures, such as the changing room.

POU overlap is permit 63-12316 is for heating in the same POU, one home and the changing room.

I could not find the well logs, probably because of the government lots and odd shapes of quarter-quarters in the area of the subdivision, and the age of the wells. Mr. Pippitt provided information regarding well depths, static water level, where the pumps are set, and the equipment specs.

Mr. Pippitt stated that usually only one well is pumped at a time and one well was being pumped the day of the exam. The pressure gauge indicated 52 psi. Mr. Pippitt stated that the maximum pressure is about 60 psi.

I calculated a theoretical flow rate using the information Mr. Pippitt gave me, and 52 psi. The results were 0.09 cfs for well no. 1 and 0.08 cfs for well no. 2. I recommend for licensing the permitted rate of 0.1 cfs.

Regarding volume, 0.6 af for a home is IDWR standard. The rec center [changing room] was limited to 2500 gpd.  $2500 \text{ gpd} \times 365 \text{ days} / 325850 = 2.6 \text{ af}$

For 10 mixed stock,  $\times 12 \text{ gpd} \times 365 \text{ days} / 325850 = 0.13 \text{ afa}$

So, the total volume recommended for licensing =  $0.6 + 2.6 \text{ af} = 3.2 \text{ af}$  for domestic +  $0.13 \text{ af}$  for stockwater =  $3.33 = 3.3 \text{ afa}$ .

Conditions have been met but should be changed as follows:

- 1] Place of use condition for domestic for the 1 home should be changed to Blk 1, Lots 3- 6.
- 2] Domestic use condition should be changed to 1 home and a changing room associated with the soaking pool.
- 3 ] volume conditions should be deleted because volumes were calculated.



63-12317 - the PODs, wells 1 and 2, and what is referred to by the applicant as the cold water pump house, west of the Pine-Featherville Hwy.



RECEIVED

MAY 16 2013

WATER RESOURCES  
WESTERN REGION

# 4" submersible pumps - 10, 15, 20, 30, and 50 gpm

20 Gallons per Minute

## PUMP PERFORMANCE (Capacity in Gallons Per Minute)

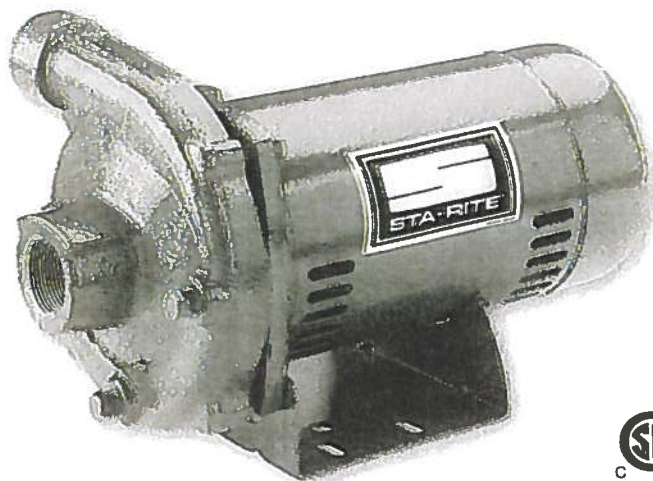
|       |     | PUMPING PERFORMANCE (Capacity in Gallons Per Minute) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|-------|-----|------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|------|------|---------------|------|------|------|------|-----|------|------|------|-----|
| HP    | PSI | TOTAL HEAD Pumping Depth in Feet                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |               |      |      | Shut-Off Head |      |      |      |      |     |      |      |      |     |
|       |     | 20                                                   | 40   | 60   | 80   | 100  | 125  | 150  | 175  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550           | 600  | 650  | 700           | 750  | 800  | 850  | 900  | 950 | 1000 | Feet | PSI  |     |
| 3/4   | 0   | —                                                    | —    | 29.2 | 26.9 | 23.5 | 19.0 | 13.7 | 1.8  |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      | 180  | 78  |
|       | 20  | 28.5                                                 | 25.8 | 22.5 | 18.5 | 14.5 | 3.4  |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 30  | 25.2                                                 | 22.0 | 18.3 | 13.9 | 4.5  |      |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 40  | 21.3                                                 | 17.6 | 13.0 | 3.0  |      |      |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 50  | 17.2                                                 | 11.4 | 1.8  |      |      |      |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 60  | 10.2                                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
| 1     | 0   | —                                                    | —    | 31.0 | 29.6 | 28.0 | 25.3 | 22.4 | 18.8 | 15.5 |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      | 251  | 109 |
|       | 20  | 30.5                                                 | 29.2 | 27.4 | 25.1 | 22.8 | 19.5 | 16.1 | 10.1 |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 30  | 28.8                                                 | 27.2 | 24.9 | 22.5 | 19.8 | 16.5 | 10.6 |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 40  | 27.0                                                 | 24.5 | 22.0 | 19.4 | 16.8 | 11.6 | 2.6  |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 50  | 24.2                                                 | 21.5 | 19.0 | 16.3 | 12.5 | 3.3  |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 60  | 21.3                                                 | 18.6 | 16.0 | 11.1 | 3.7  |      |      |      |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
| 1-1/2 | 0   | —                                                    | —    | —    | 30.9 | 29.8 | 28.2 | 26.4 | 24.0 | 21.6 | 16.4 | 5.4  |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      | 323  | 140 |
|       | 20  | —                                                    | 30.5 | 29.4 | 28.2 | 26.8 | 24.4 | 22.0 | 19.5 | 16.8 | 6.8  |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 30  | 30.3                                                 | 29.3 | 28.0 | 26.5 | 24.7 | 22.2 | 19.6 | 17.1 | 13.9 |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 40  | 29.1                                                 | 27.8 | 26.2 | 24.3 | 22.3 | 19.8 | 17.3 | 14.2 | 8.0  |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 50  | 27.5                                                 | 26.0 | 24.1 | 22.1 | 20.0 | 17.5 | 14.5 | 8.3  |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 60  | 25.6                                                 | 23.9 | 21.9 | 19.8 | 17.5 | 14.8 | 9.1  | 2.2  |      |      |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
| 2     | 0   | —                                                    | —    | —    | 31.5 | 30.7 | 29.7 | 28.6 | 27.3 | 26.0 | 23.2 | 20.2 | 16.2 | 8.5  |      |      |               |      |      |               |      |      |      |      |     |      |      | 420  | 275 |
|       | 20  | —                                                    | 31.3 | 30.5 | 29.7 | 28.8 | 27.5 | 26.1 | 24.9 | 23.4 | 20.6 | 16.7 | 9.5  |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 30  | 31.1                                                 | 30.3 | 29.5 | 28.7 | 27.6 | 26.2 | 25.0 | 23.5 | 22.1 | 19.1 | 13.8 | 4.8  |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 40  | 30.2                                                 | 29.4 | 28.5 | 27.5 | 26.4 | 25.1 | 23.7 | 22.2 | 20.8 | 17.2 | 10.1 |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 50  | 29.3                                                 | 28.3 | 27.2 | 26.1 | 25.1 | 23.8 | 22.3 | 20.9 | 19.3 | 14.0 | 5.7  |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 60  | 28.1                                                 | 27.1 | 26.0 | 25.0 | 23.9 | 22.4 | 21.0 | 19.4 | 17.3 | 10.8 |      |      |      |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
| 3     | 0   | —                                                    | —    | —    | 31.9 | 31.1 | 30.6 | 29.7 | 29.0 | 27.2 | 25.3 | 23.5 | 21.3 | 19.1 | 16.0 | 11.3 | 3.6           |      |      |               |      |      |      |      |     |      |      | 605  | 349 |
|       | 20  | —                                                    | —    | 31.7 | 31.1 | 30.7 | 29.9 | 29.1 | 28.3 | 27.3 | 25.4 | 23.6 | 21.6 | 19.3 | 16.1 | 12.0 | 5.0           |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 30  | —                                                    | 32.0 | 31.0 | 30.6 | 29.9 | 29.2 | 28.5 | 27.4 | 26.6 | 24.8 | 22.7 | 20.6 | 18.1 | 14.5 | 9.0  |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 40  | 31.6                                                 | 31.0 | 30.5 | 29.8 | 29.2 | 28.6 | 27.5 | 26.7 | 25.5 | 23.8 | 21.7 | 19.6 | 16.8 | 12.5 | 5.3  |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 50  | 30.9                                                 | 30.0 | 29.7 | 29.1 | 28.6 | 27.6 | 26.7 | 25.6 | 24.9 | 22.8 | 20.8 | 18.5 | 15.0 | 9.5  |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 60  | 30.3                                                 | 29.6 | 29.1 | 28.5 | 27.7 | 26.8 | 25.7 | 24.9 | 23.9 | 21.8 | 19.8 | 16.9 | 12.7 | 5.6  |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
| 5     | 0   | —                                                    | —    | —    | —    | —    | —    | —    | 31.7 | 31.1 | 30.5 | 29.5 | 28.5 | 27.5 | 26.5 | 25.2 | 24.0          | 22.8 | 21.5 | 20.2          | 18.9 | 17.0 | 14.3 | 11.0 | 6.8 | 2.0  |      | 1005 | 476 |
|       | 20  | —                                                    | —    | —    | —    | —    | 31.7 | 31.2 | 30.9 | 30.6 | 29.5 | 28.6 | 27.6 | 26.6 | 25.3 | 24.1 | 22.9          | 21.6 | 20.3 | 19.0          | 17.3 | 14.0 | 11.2 | 7.3  | 2.6 |      |      |      |     |
|       | 30  | —                                                    | —    | —    | —    | 31.8 | 31.3 | 30.9 | 30.7 | 30.0 | 29.0 | 28.0 | 27.1 | 26.0 | 24.9 | 23.5 | 22.2          | 21.0 | 19.9 | 18.2          | 16.2 | 13.3 | 9.5  | 5.2  |     |      |      |      |     |
|       | 40  | —                                                    | —    | —    | 31.7 | 31.4 | 31.0 | 30.7 | 30.0 | 29.6 | 28.7 | 27.7 | 26.7 | 25.4 | 24.2 | 22.9 | 21.7          | 20.4 | 19.1 | 17.5          | 14.4 | 11.5 | 7.7  | 3.1  |     |      |      |      |     |
|       | 50  | —                                                    | 32.0 | 31.7 | 31.2 | 31.0 | 30.8 | 30.0 | 29.6 | 29.1 | 28.1 | 27.2 | 26.0 | 25.0 | 23.6 | 22.3 | 21.1          | 20.0 | 18.4 | 16.3          | 13.5 | 9.9  | 5.7  |      |     |      |      |      |     |
|       | 60  | 31.9                                                 | 31.6 | 31.2 | 30.9 | 30.8 | 30.1 | 29.7 | 29.1 | 28.8 | 27.8 | 26.8 | 25.5 | 24.3 | 23.0 | 21.8 | 20.5          | 19.2 | 17.7 | 14.9          | 12.0 | 8.0  | 3.7  |      |     |      |      |      |     |
| HP    | PSI | Pumping Depth in Feet                                |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Shut-Off Head |      |      |               |      |      |      |      |     |      |      |      |     |
|       |     | 200                                                  | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | Feet          | PSI  |      |               |      |      |      |      |     |      |      |      |     |
| 7-1/2 | 0   | —                                                    | —    | —    | —    | 28.7 | 27.3 | 25.7 | 24.3 | 23.1 | 21.5 | 19.9 | 16.4 | 11.3 | 4.1  |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 20  | —                                                    | —    | —    | —    | 28.3 | 26.7 | 25.3 | 23.7 | 22.3 | 20.8 | 18.9 | 14.7 | 8.5  | 1.3  |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 30  | —                                                    | —    | —    | —    | 28.0 | 26.5 | 25.1 | 23.5 | 22.1 | 20.6 | 18.3 | 13.4 | 7.0  |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 40  | —                                                    | —    | —    | 29.2 | 27.5 | 26.3 | 24.7 | 23.3 | 21.7 | 20.2 | 17.3 | 12.1 | 5.3  |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 50  | —                                                    | —    | —    | 28.7 | 27.3 | 25.7 | 24.5 | 22.7 | 21.3 | 19.7 | 16.0 | 10.6 | 3.6  |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 60  | —                                                    | —    | —    | 28.4 | 26.9 | 25.5 | 24.3 | 22.5 | 21.0 | 19.3 | 15.1 | 9.5  | 2.1  |      |      |               |      |      |               |      |      |      |      |     |      |      |      |     |
| 10    | 0   | —                                                    | —    | —    | —    | —    | —    | —    | 28.0 | 26.8 | 25.7 | 24.7 | 23.7 | 22.6 | 21.6 | 20.7 | 19.5          | 17.1 |      |               |      |      |      |      |     |      |      |      |     |
|       | 20  | —                                                    | —    | —    | —    | —    | 28.6 | 27.5 | 26.4 | 25.3 | 24.4 | 23.3 | 22.1 | 21.3 | 20.1 | 18.5 | 16.0          |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 30  | —                                                    | —    | —    | —    | —    | 28.4 | 27.3 | 26.2 | 25.0 | 24.1 | 23.0 | 21.9 | 21.0 | 19.9 | 18.0 | 15.0          |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 40  | —                                                    | —    | —    | —    | —    | 28.0 | 27.0 | 25.7 | 24.9 | 24.0 | 22.8 | 21.7 | 20.8 | 19.7 | 17.6 | 14.7          |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 50  | —                                                    | —    | —    | —    | 29.2 | 27.8 | 26.7 | 25.5 | 24.7 | 23.6 | 22.5 | 21.5 | 20.6 | 19.4 | 17.0 | 14.0          |      |      |               |      |      |      |      |     |      |      |      |     |
|       | 60  | —                                                    | —    | —    | —    | 28.7 | 27.5 | 26.4 | 25.3 | 24.4 | 23.3 | 22.2 | 21.3 | 20.2 | 18.5 | 16.1 | 12.5          |      |      |               |      |      |      |      |     |      |      |      |     |

**CAUTION: DO NOT** use pump at flow rates indicated by the symbol '—'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions. Tested and rated in accordance with Water Systems Council Standards.

**NOTE:** Pumps installed with a PRO-Source™ tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.



# general purpose centrifugal pumps



*The J/JB Series Pumps have a heavy-duty cast iron construction and are offered in high and medium head models, with Noryl® or silicon bronze impeller.*

## APPLICATIONS

- Water systems and sprinkling... for homes, farms and industry.

## SPECIFICATIONS

**Body and Seal Plate** – Close-grained cast iron  
**Base** – Steel 12 gauge  
**Impeller – J Series** – Noryl  
**Impeller – JB Series** – Silicon bronze  
**Shaft** – 416 stainless steel  
**Mechanical Seal** – Carbon/ceramic, Buna-N

## J/JB SERIES

### FEATURES

**1/3 through 2-1/2 HP** – High head and medium head models, with heavy-duty motors, easy service design and four-position discharge.

**Drain Port** – Provided for easy winterizing.

**Medium Head Models** – Deliver up to 110' of head with capacities to 140 GPM.

**High Head Models** – Deliver up to 140' of head with capacities to 90 GPM.

**Easy Serviceability** – All models include replaceable wear ring and feature back pull-out design.

**J Series with Noryl Impellers** – Abrasion-resistant for normal applications with working temperatures to 140°F.

**JB Series with Silicon Bronze** – JB pumps equipped with shaft seals rated for temperatures to 225°F.

## ORDERING INFORMATION

### HIGH HEAD

| Catalog Number  |                         | HP    | Pipe Tapping Sizes |        | Motor Voltage | Phase | Approx. Wt. Lbs. |
|-----------------|-------------------------|-------|--------------------|--------|---------------|-------|------------------|
| Noryl® Impeller | Silicon Bronze Impeller |       | Suct.              | Disch. |               |       |                  |
| JHB             | JBHB                    | 1/3   | 1-1/4"             | 1"     | 115           | 1     | 38               |
| JHC             | JBHC                    | 1/2   | 1-1/4"             | 1"     | 115/230       | 1     | 39               |
| JHC3            | JBHC3                   |       | 1-1/4"             | 1"     | 208-230/460   | 3     | 39               |
| JHD             | JBHD                    | 3/4   | 1-1/4"             | 1"     | 115/230       | 1     | 42               |
| JHD3            | JBHD3                   |       | 1-1/4"             | 1"     | 208-230/460   | 3     | 42               |
| JHE             | JBHE                    | 1     | 1-1/4"             | 1"     | 115/230       | 1     | 45               |
| JHE3            | JBHE3                   |       | 1-1/4"             | 1"     | 208-230/460   | 3     | 45               |
| JHF             | JBHF                    | 1-1/2 | 1-1/4"             | 1"     | 115/230       | 1     | 49               |
| JHF3            | JBHF3                   |       | 1-1/4"             | 1"     | 208-230/460   | 3     | 49               |
| JHG             | JBHG                    | 2     | 1-1/2"             | 1-1/4" | 115/230       | 1     | 69               |
| JHG3            | JBHG3                   |       | 1-1/2"             | 1-1/4" | 208-230/460   | 3     | 69               |
| JHHG            | JBHHG                   | 2-1/2 | 2"                 | 1-1/2" | 115/230       | 1     | 74               |
| JHHG3           | JBHHG3                  |       | 2"                 | 1-1/2" | 208-230/460   | 3     | 74               |

### MEDIUM HEAD

| Catalog Number  |                         | HP    | Pipe Tapping Sizes |        | Motor Voltage | Phase | Approx. Wt. Lbs. |
|-----------------|-------------------------|-------|--------------------|--------|---------------|-------|------------------|
| Noryl® Impeller | Silicon Bronze Impeller |       | Suct.              | Disch. |               |       |                  |
| JMB             | JBMB                    | 1/3   | 1-1/4"             | 1"     | 115           | 1     | 38               |
| JMC             | JBMC                    | 1/2   | 1-1/4"             | 1"     | 115/230       | 1     | 39               |
| JMC3            | JBMC3                   |       | 1-1/4"             | 1"     | 208-230/460   | 3     | 39               |
| JMD             | JBMD                    | 3/4   | 1-1/4"             | 1"     | 115/230       | 1     | 42               |
| JMD3            | JBMD3                   |       | 1-1/4"             | 1"     | 208-230/460   | 3     | 42               |
| JME             | JBME                    | 1     | 1-1/2"             | 1-1/4" | 115/230       | 1     | 43               |
| JME3            | JBME3                   |       | 1-1/2"             | 1-1/4" | 208-230/460   | 3     | 43               |
| JMF             | JBMF                    | 1-1/2 | 1-1/2"             | 1-1/4" | 115/230       | 1     | 54               |
| JMF3            | JBMF3                   |       | 1-1/2"             | 1-1/4" | 208-230/460   | 3     | 54               |
| JMG             | JBMG                    | 2     | 1-1/2"             | 1-1/4" | 115/230       | 1     | 66               |
| JMG3            | JBMG3                   |       | 1-1/2"             | 1-1/4" | 208-230/460   | 3     | 66               |
| —               | JBMMG                   | 2-1/2 | 2"                 | 1-1/2" | 115/230       | 1     | 74               |
| —               | JBMMG3                  |       | 2"                 | 1-1/2" | 208-230/460   | 3     | 74               |

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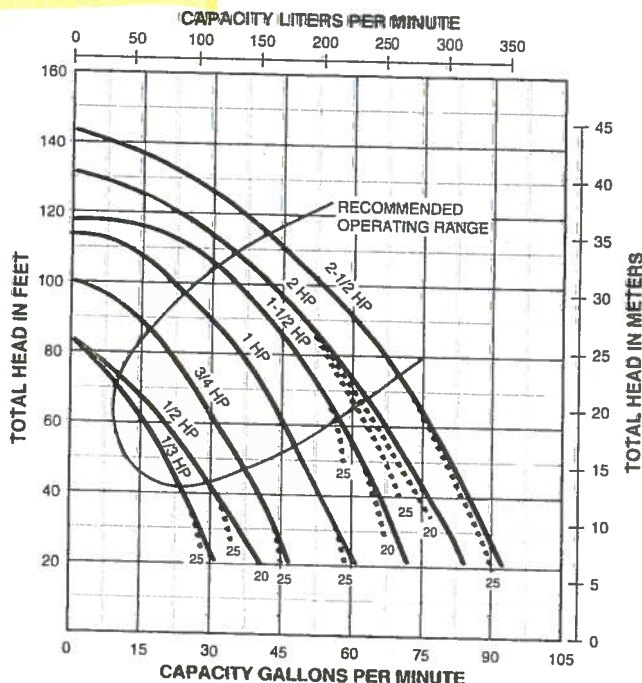
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WATER RESOURCES  
WESTERN REGION

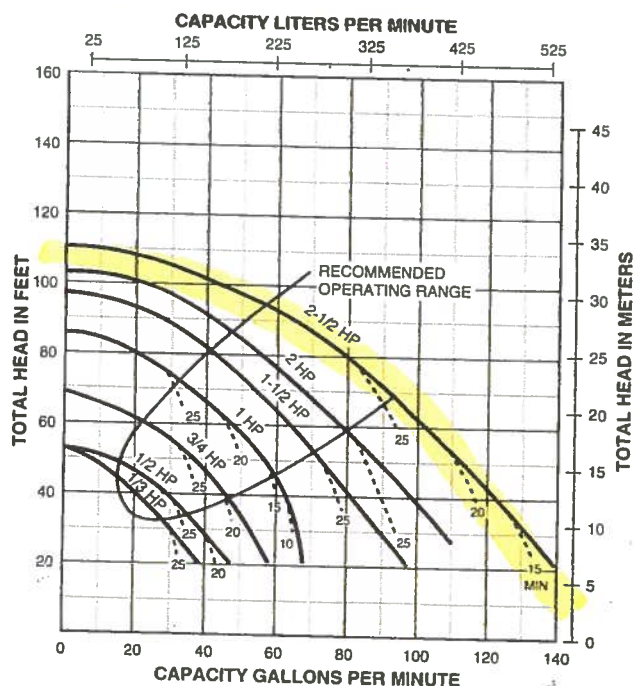
# general purpose centrifugal pumps

## PUMP PERFORMANCE

### High Head



### Medium Head



## PUMP PERFORMANCE (Capacity in Gallons Per Minute)

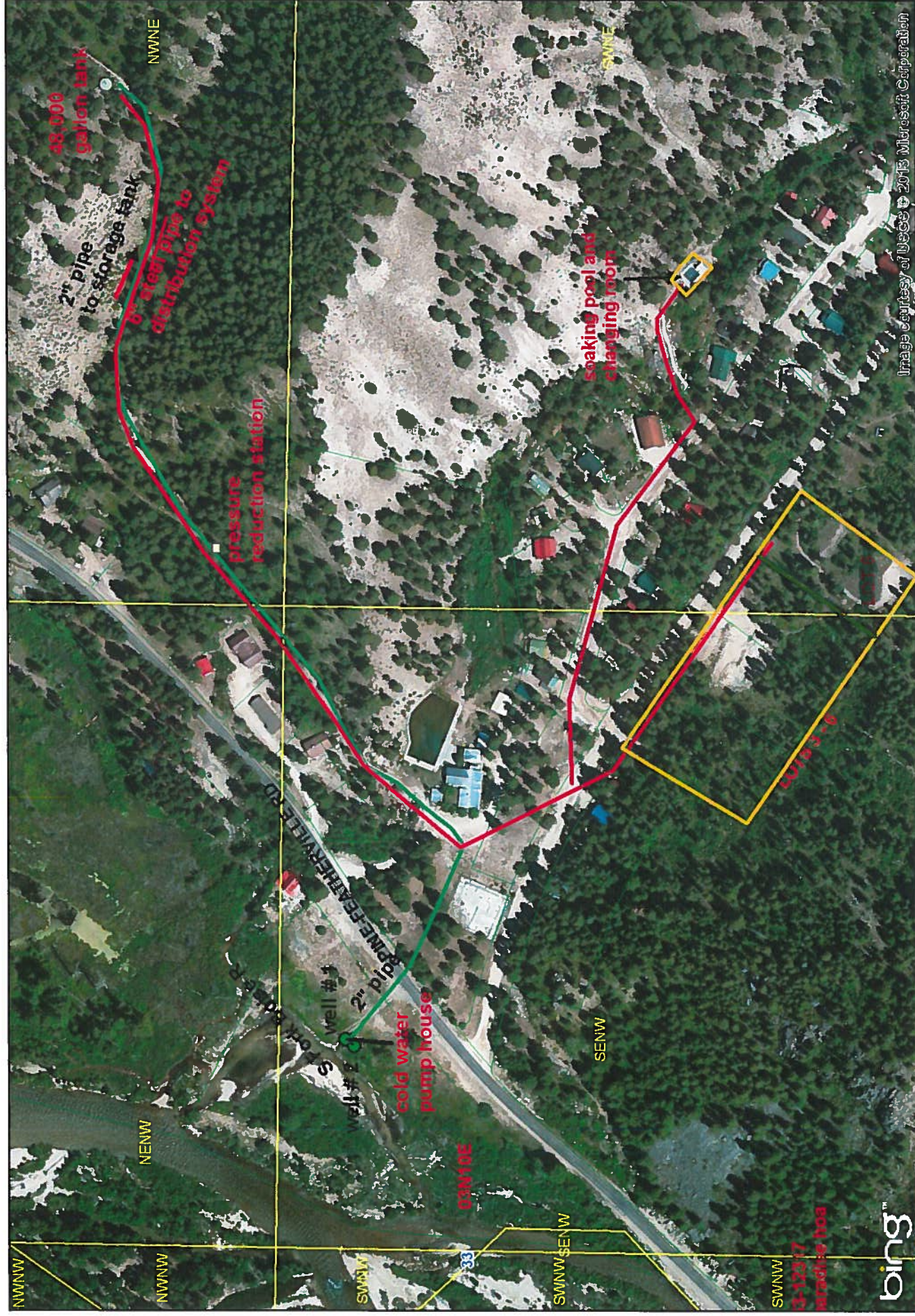
### HIGH HEAD

| HP    | Discharge Pressure |           | Dynamic Suction Lift |     |     |     |     |
|-------|--------------------|-----------|----------------------|-----|-----|-----|-----|
|       | PSI                | Feet Head | 5'                   | 10' | 15' | 20' | 25' |
| 1/3   | 10                 | 23.1      | —                    | 26  | 24  | 22  | 20  |
|       | 20                 | 46.2      | 20                   | 18  | 15  | 11  | 10  |
|       | 30                 | 69.3      | 6                    | —   | —   | —   | —   |
| 1/2   | 10                 | 23.1      | —                    | 34  | 32  | 29  | 26  |
|       | 20                 | 46.2      | 25                   | 21  | 18  | 15  | 11  |
|       | 30                 | 69.3      | 10                   | —   | —   | —   | —   |
| 3/4   | 10                 | 23.1      | —                    | —   | 42  | 39  | 37  |
|       | 20                 | 46.2      | 35                   | 32  | 30  | 28  | 26  |
|       | 30                 | 69.3      | 24                   | 22  | 19  | 15  | 10  |
| 1     | 20                 | 46.2      | 48                   | 46  | 45  | 43  | 40  |
|       | 30                 | 69.3      | 38                   | 35  | 31  | 28  | 25  |
|       | 40                 | 92.4      | 23                   | 20  | 15  | —   | —   |
| 1-1/2 | 20                 | 46.2      | 62                   | 60  | 58  | 55  | 52  |
|       | 30                 | 69.3      | 50                   | 48  | 44  | 40  | 37  |
|       | 40                 | 92.4      | 37                   | 32  | 29  | 22  | —   |
| 2     | 20                 | 46.2      | 71                   | 68  | 66  | 62  | 60  |
|       | 30                 | 69.3      | 60                   | 57  | 52  | 59  | 45  |
|       | 40                 | 92.4      | 45                   | 40  | 36  | 31  | 24  |
|       | 50                 | 115.5     | 22                   | 15  | —   | —   | —   |
|       | 20                 | 46.2      | 81                   | 79  | 76  | 74  | 71  |
| 2-1/2 | 30                 | 69.3      | 69                   | 67  | 63  | 60  | 56  |
|       | 40                 | 92.4      | 56                   | 51  | 47  | 44  | 38  |
|       | 50                 | 115.5     | 33                   | 30  | 22  | 15  | —   |

Tested and rated in accordance with Water Systems Council Standards.

**NOTE:** Pumps installed with a PRO-Source™ tank require a 100 PSI relief valve. Pumps with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

**NOTE:** Dotted lines indicate performance reduction at high suction lift.



63-12317 - the PODs are cold water wells 1 and 2, Place of use shown in orange, pipeline from well to storage tank shown in light blue and 6" pipeline from tank to distributions sytem shown in red.

63-12317 – Paradise Pines subdivision – field exam pictures



The cold water pump house and cold water well # 2, south of the pump house.



Cold water well # 1, on north side of cold water pump house.



Interior of the cold water pump house. Pressure gauge indicated 52 psi.



Domestic and stockwater POU – lot 1, Blk 1. There is a very small “house” or shed on the property, as well as 2 stockwater troughs, one of which is seen here. Both hot and cold water is stubbed in.



Lt 6, Blk 1 of domestic POU. No house has been build yet but both hot and cold water sources are stubbed in.



Part of the domestic POU is the changing room by the soaking pool. The recreation center was not developed.