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5 **John G. Gliege (#003644)**

6 **Stephanie J. Gliege (#022465)**

7 **Attorneys for the Complainants**

AZ CORP COMMISSION  
DOCKET CONTROL

8 **BEFORE THE ARIZONA CORPORATION COMMISSION**

9 **RAYMOND R. PUGEL AND JULIE B.**  
10 **PUGEL, husband and wife as trustees of THE**  
11 **RAYMOND R. PUGEL and JULIE B. PUGEL**  
12 **FAMILY TRUST,**

13 **and**

14 **ROBERT RANDALL and SALLY RANDALL,**  
15 **husband and wife**

16 **Complainants,**

17 **v.**

18 **PINE WATER COMPANY, an Arizona**  
19 **Corporation**

20 **Respondent..**

**DOCKET NO. W-03512A-06-0407**

**DIRECT TESTIMONY OF MIKE**

**PLOUGHE**

Arizona Corporation Commission  
**DOCKETED**

JUL 19 2007

DOCKETED BY

21 **ASSET TRUST MANAGEMENT, CORP.**

22 **Complainants,**

23 **v.**

24 **PINE WATER COMPANY, an Arizona**  
25 **Corporation**

26 **Respondent.**

**DOCKET NO. W-03512A-06 -0613**

27 **JAMES HILL and SIOUX HILL, husband and**  
28 **wife and as trustees of THE HILL FAMILY**  
29 **TRUST,**

**Complainants,**

**v.**

**PINE WATER COMPANY, an Arizona**  
**Corporation**

**Respondent.**

**DOCKET NO. W-03512A-07-0100**

1 **BRENT WEEKES,**  
2 **Complainants,**  
3 **v.**  
4 **PINE WATER COMPANY, an Arizona**  
5 **Corporation**  
6 **Respondent.**

**DOCKET NO. W-03512A-07-0019**

7 1. State your full name:

8 **Michael Ploughe P.G.**

9 2. State your occupation(s)

10 **Hydrogeologist / Geologist, Water Resources Consultant, President of Highland Water**  
11 **Resources Consulting Inc.**

12 3. Are you licensed by or registered with the State of Arizona in any capacity? If so, in what  
13 capacity?

14 **Yes. I am a registered professional Geologist License no. 38738 (Designated as either P.G.**  
15 **or R.G) in the State of Arizona.**

16 4. Are you familiar with the domestic water situation in Pine, Arizona? To what extent?

17 **Yes. I am quite familiar with the domestic water situation in Pine. I have prepared**  
18 **numerous reports, analyses, on the topic, particularly as related to groundwater**  
19 **availability. I have been actively involved in the Water Resources arena in Pine, AZ for**  
20 **nearly seven years.**

21 5. Are you familiar with a well known as the Milk Ranch Well?

22 **Yes**

23 6. If so, in what manner are you familiar with the Milk Ranch Well.

24 **I am intimately familiar with the Milk Ranch Well as I, via my firm Highland Water**  
25 **Resources Consulting Inc., was charged with the location of the well through all phases of**  
26 **completion and testing.**

27 7. Are you aware of the production capabilities of the Milk Ranch Well? If so, what are they?  
28  
29

1 **Yes. The Milk Ranch Well is a very capable well and can consistently yield 150 gallons per**  
2 **minute and is capable of at least twice this production rate (300 gpm).**

3 8. Are you aware of the gallons per minute which the well can presently pump, if so, how many?

4 **Yes. As presently equipped, the well can readily pump the 220 gallon per minute capacity**  
5 **of the sand separator installed on the pump. However, for longer durations 140-150gpm**  
6 **provides for a safety margin relative to the sand separators capacity.**

7 9. Are you familiar with a well known as the SH3 well?

8 **Yes.**

9  
10 10. If so, in what manner are you familiar with such well?

11 **Similarly to the Milk Ranch well I, via my firm Highland Water Resources Consulting Inc.**  
12 **"HWRC", was charged with the location of the well through all phases of completion and**  
13 **testing. In addition, I was charged with the filing of an assured water supply application**  
14 **with ADWR on behalf of the Strawberry Hollow Domestic Water Improvement District**  
15 **directly involving the SH3 well as a key water supply. The application was successful in**  
16 **resulting in the first ever 100 year water adequacy report to have ever been**  
17 **issued/designated in the Pine area.**

18 11. Are you aware of the production capabilities of the SH3 well? If so, what are they?

19 **Yes. The SH3 well is quite capable of pumping 50 gallons per minute as it is currently**  
20 **equipped and constructed. However, this well may in fact be capable of far more than 50**  
21 **gallons per minute as the capacity likely approaches 300 gallons per minute. The yield at**  
22 **SH3 is simply limited by the well's small diameter (6 inch) construction.**

23 12. Are you aware of the gallons per minute which the well can presently pump, if so, how many?

24 **Again, I believe this to be approximately 50 gallons per minute as currently equipped.**

25 13. The complainants each are seeking to have water supplied by the above mentioned wells, Mr.  
26 Pugel by the Milk Ranch Well and ATM by the SH3 Well. The ATM development needs water  
27 for 43 townhouses. Is there enough water in the SH3 well to provide water to these townhouses?

28 **Most assuredly there is.**

29 14. Is there enough water in the Milk Ranch Well to provide for the needs for the development  
proposed by Mr. Pugel?

**Most assuredly there is.**

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15. Will providing water to these 43 units in the Eagle Glen development diminish in any way the amount of water being provided to the other users of the SH 3 well?

**No. The amount of water required of the 43 units, even at a peak demand (17 gpm), is not a substantial volume with respect to the SH3 well's committed demands and demonstrated capability.**

16. To your knowledge, is the SH3 well located close enough to the facilities of Pine Water Company to make connection to it in a cost efficient manner?

**Yes.**

17. To your knowledge is the Milk Ranch Well located close enough to the facilities of Pine Water Company to make connection to it in a cost efficient manner?

**Absolutely, there is a water distribution main (4 inch or 6 inch) within 30 feet of the well. This would be a very simple and cost efficient connection.**

1 Original and 19copies mailed/delivered  
This 17th day of July 2007 to:

2 Arizona Corporation Commission  
3 Attn: Docket Control  
4 1200 W. Washington  
Phoenix, AZ 85007

5 Copies of the foregoing mailed/delivered  
6 This 5<sup>th</sup> day of April, 2007 to:

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