

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 11-7436

Exam Date: 5/20/2008

1. Current Owner: ASPEN CREEK WATER CO INC
10 SOUTH BEAR LAKE BLVD
GARDEN CITY UT 84028
(435)946-3503
2. Accompanied by: Ray Elliot
Phone No: 435-881-6773
Address:
Relationship to Permit Holder: President of Water Company

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Own 64 Shares in Upper Fish Haven Canal Company
2. Other water rights with the same point of diversion: none

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	SW 1/4 SW 1/4 SE 1/4	Sec. 15, Twp 16S, Rge 43E, B.M.
BEAR LAKE County		
GROUND WATER	NE 1/4 NE 1/4 NW 1/4	Sec. 22, Twp 16S, Rge 43E, B.M.
BEAR LAKE County		

Method of Determination: GPS Garmin, Field Survey

2.

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16S	43E	15			X				X	X	X	X	X	X	X	X	X		
16S	43E	22	X	X	X		X												

Method of Determination: Field Survey

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.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
A0015882		40			
D0043948		60			

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: Theoretical calculations used because both systems were submerged and a measurement was not possible

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

10.5 acres irrigated with 1/10 acre per 105 lots require 36.75 afa; 105 homes require 63 afa for in house use requiring a total of 99.80 AF.

G. NARRATIVE/REMARKS/COMMENTS

Wells delivering to 109,000 gallons of storage and 105 homes. All 105 homes a currently stubbed. Well 1 is 170 feet to water with a 40 horse power pump, pumping against 140 psi. The well casing is six inches. The second well is 140 feet to water with a 60 horse power pump, puming against 140 psi. The second well casing is also six inches. Well 2 is in place with pump, but the well house is not yet constructed, the permit owner is awaiting the approval of Idaho Department of Environmental Quality.

Have conditions of permit approval been met? X 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	1.300 CFS	99.80 AF
<u>Totals:</u>		1.300 CFS	99.80 AF

2. Recommended Amendments

X 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. AUTHENTICATION

Field Examiner's Name Nathan Arave Date 5/21/08

Theoretical Pump Flow Calculation	
$Q = [(Hp) * (8.814) * (eff)] / [Lift + (psi * 2.308)]$	
Permit No. 11-7436 Well 1	
Hp = horsepower =	40
Eff = efficiency =	0.7
Lift =	170
PSI = Pressure =	140
Q =	0.50

Lift = Static water level + assumed draw down
or
Measured dynamic water level

Theoretical Pump Flow Calculation	
$Q = [(Hp) * (8.814) * (eff)] / [Lift + (psi * 2.308)]$	
Permit No. 11-7436 Well 2	
Hp = horsepower =	60
Eff = efficiency =	0.7
Lift =	140
PSI = Pressure =	140
Q =	0.80

Lift = Static water level + assumed draw down
or
Measured dynamic water level

Well 1 Well House Pumping Works





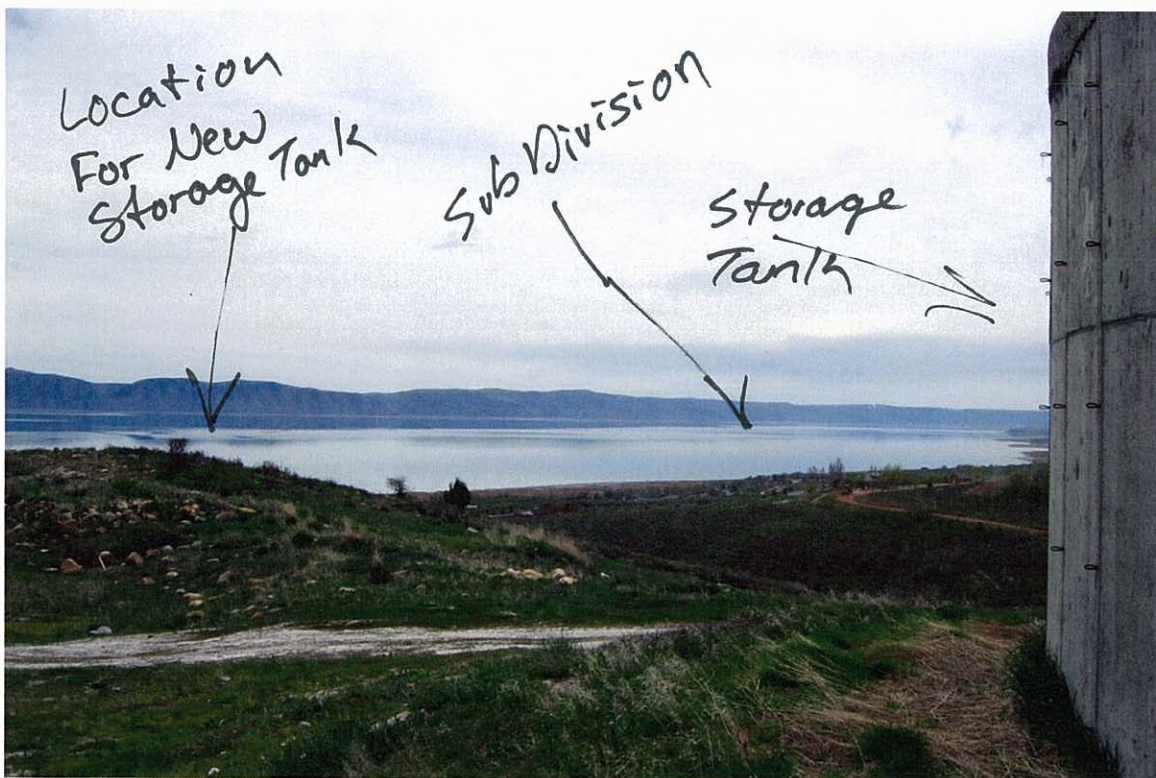


well 2



Well 2





[illegible]

[illegible]

MEMO

RECEIVED
JUN 06 2008
DEPARTMENT OF
WATER RESOURCES

To: Nate Arave, IDWR
From: Ray Elliott, Aspen Creek Water Co.
Subject: Well Test Reports
Date: May 28, 2008

Enclosed are the well reports for both the Loveland and Gentel Ben wells. If there is anything else that you need from me to complete the Proof of Beneficial Use, please let me know.

Ray Elliott
Aspen Creek Water Co.
10 S Bear Lake Blvd.
Garden City, Utah 84028
435-946-3500 office
435-881-6773 cellular

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JUN 02 2008
Department of Water Resources
Eastern Region



GLENN'S ELECTRIC MOTOR & SUPPLY INC.



501 North Main Street • Logan, Utah 84321

E-Mail: glennselectric@qwest.net

Phone: 435-752-4178 • Fax 435-752-4214 • Toll Free 1-800-281-4178

Aspen Creek Water Well #1 North Well

August 20-21, 199850 HP Test Pump

*GPM= Gallons per minute

Time	Water Level	Flow GPM*
8:00 AM	211'	560
8:15	235'	520
8:30	252'	515
8:45	258'	505
9:00	261'	501
10:00	261'	500
11:00	261'	500
12:00 PM	261'	500
1:00	261'	500
2:00	261'	500
3:00	261	500
4:00	261'	500
5:00	261'	500
6:00	261'	500
7:00	261'	500
8:00	261'	500
9:00	261'	500
10:00	261'	500
11:00	261'	500
12:00 AM	261'	500
1:00	261'	500
2:00	261'	500
3:00	261'	500
4:00	261'	500
5:00	261'	500
6:00	261'	500
7:00	261'	500
8:00 AM	261'	500

Water level stayed at 261' and flow at 500GPM for the duration of the 24hr test.

Test done by: Kent Glenn



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Aspen Creek Water South Well #2

May 23-24, 2008

Beginning Static Water Level (SWL)- 138.8 in.

*GPM= Gallons per minute

Time	SWL	Flow GPM*	Time	SWL	Flow GPM*
3:11 PM	170'	380	11:30	244'	250
3:13	202'	370	12:00 AM	244 1/2'	250
3:15	212'	365	12:30	245'	250
3:17	224'	355	1:00	245'	250
3:19	234'	340	2:00	245 1/2'	250
3:21	240'	325	3:00	246'	250
3:23	245'	310	4:00	246'	250
3:25	250'	300	5:00	246'	250
3:28	245'	290	6:00	246 1/2'	250
3:31	245 1/2'	290	7:00	247'	250
3:35	247'	280	8:00	247 1/2'	250
3:40	245'	275	8:30	247 3/4'	250
3:45	244'	275	9:00	249'	250
3:50	243 1/2'	275	9:30	248 1/2'	250
4:00	245'	275	10:00	249'	250
4:10	246'	275	10:30	248 3/4'	250
4:25	246'	275	11:00	248 1/2'	250
4:40	246'	275	11:15	249'	250
4:55	247'	275	11:30	248 1/2'	250
5:30	247'	275	12:00	249'	250
6:00	247 1/2'	275	12:30	249 1/4'	250
6:15	243'	250	1:00	249 1/2'	250
6:30	243'	250	1:30	249'	250
7:00	243'	250	2:00	249'	250
7:30	243'	250	2:30	249'	250
8:00	243'	250	3:00 PM	249'	250
8:30	243 1/2'	250			
9:00	243.5'	250			
9:30	244'	250			
10:00	244'	250			
10:30	244'	250			
11:00	244'	250			

Test done by Chris Hawkes and Kent Glenn