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DEPT. OF WATER RESOURCES
SOUTHERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No.: 37-20742

1. Owner: Robert G. Friedman

Phone No.: 310-309-8484

Current Address: 215 Denslow Ave., Los Angeles, CA 90049

2. Accompanied by: Mike Koleno

Exam Date: _____

Address: P.O. Box 2392, Sun Valley, ID 83353

Phone No.: 208-720-3166

Relationship to Permit Holder: Property Manager

3. Source: Ground Water tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-00869 (Transfer T5748) Mitigation

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: Aerial Photo - USGS Quad

[illegible]

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

*See Attached Grid sheet
and Narrative*

- ☒ 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
00034317 IDWR Tag	US Electrical BF34	20	916207		10 Inch

D. FLOW MEASUREMENTS

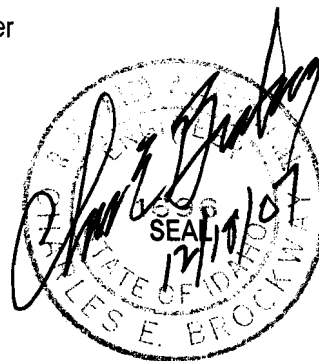
1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calibration
In Line Flow Meter	Prop	McCrometer			8"	Factory

2. Measurements: Well pump was turned on and run for approximately 45 mins. McCrometer meter read 1190 gpm on meter head and 1112 gpm at control panel. VFD read 60Hz. Static water level in well was 17.79 below top of access port (mp) pumping level was 26.1 feet below mp.

E. NARRATIVE / REMARKS / COMMENTS

See Attached Narrative



Narrative –Beneficial Use Exam Water Permit 37-20742

Robert G. Friedman

Brockway Engineering P.L.L.C. November 29, 2007

A Beneficial Use Field Examination was performed by Charles E. Brockway P.E. on November 28, 2007 for permit 37-20742. Also in attendance were: Mike Koleno, project manager and Zach Latham, hydrologist with Brockway Engineering PLLC.

Robert G. Friedman owns two tax lots near the confluence of the Big Wood River and Eagle Creek in Blaine County. Tax Lots 6079 and 6080 are located within HES 129 and in the NE1/4 NW1/4, NW1/4 NW1/4, SW1/4 NW1/4, and the SE1/4 NW1/4 Section 23, Township 5N Range 17E as interpolated. This 10 acre parcel is included in the place of use of the Eagle Creek Irrigation Company. The 10 acre parcel includes 10 shares of the 230 shares of the Eagle Creek Irrigation Company. The irrigation diversion equals 0.02 cfs per share or 10 miners inches applicable to the 10 acre parcel.(see Transfer 5748)

The development, called Fox Creek Acres includes landscaping and two ponds which serve as irrigation storage ponds and for recreation and aesthetics. The excavated ponds are approximately 1.8 acres in area and average 8 feet deep for a total estimated volume of 14.4 acre feet (Figure 1). All ponds and interconnecting channels are lined with membrane to reduce seepage losses. The irrigation supply for approximately 8 acres is provided by the Eagle Creek Irrigation Company shares which are routed through the ponds. Two shares of the Eagle Creek Irrigation Company are allotted to mitigation for consumptive use on the ponds.

Surface water from the Eagle Creek Irrigation Company enters the property on the northeast corner and is introduced into pond number 2 through a small channel (see attached site plan). Water flows through a diversion structure and 24 inch check board weir (Figure 2) into pond #2 and then into pond #1. Outflow from pond #1 exits the property on the northwest corner through a 4 ft rectangular weir, Figure 3. The flow then re-enters the Eagle Creek Irrigation Company ditch flowing west and infiltrates into the aquifer on U.S. Forest Service Land adjacent to the property. The recharge area is located on USFS property where the Eagle Creek Irrigation Company ditch discharges into a gravel swail. (Figure 4)

Water right permit 37-20742 was approved for development on October 14th 2003 for a well to be constructed adjacent to pond #1 to provide non-consumptive water from the aquifer for re-circulation in the pond system and for fire protection. The permit is for 2.0 cfs of non-consumptive water from the well and provided for 16.0 acre feet of storage for aesthetic, and recreation. The well (point of diversion) is in the NE1/4Nw1/4 Sec 23 T 05N R17E, Blaine County and the place of use is in the same quarter.

Water from the well is pumped to the head of pond #2 and will flow through both ponds to the recharge area along with water from the Eagle Creek Irrigation Company shares not used for irrigation or evaporation mitigation. A recirculation pump and sump returns water from pond #1 to the head of pond#2. The recirculation pump and sump are located in the well house (Figure 5a) along with the well, vfd control panel, and water meters (Figure 5b)

The well is 16 inches in diameter, drilled by Eaton Drilling Company and is 80 feet deep.(see attached driller's log). The well was pump tested by Brockway Engineering and G.J. Vertiline on September 16, 2004 with a maximum measured discharge of 1750 gpm (3.9 cfs) (see attached pump test data).

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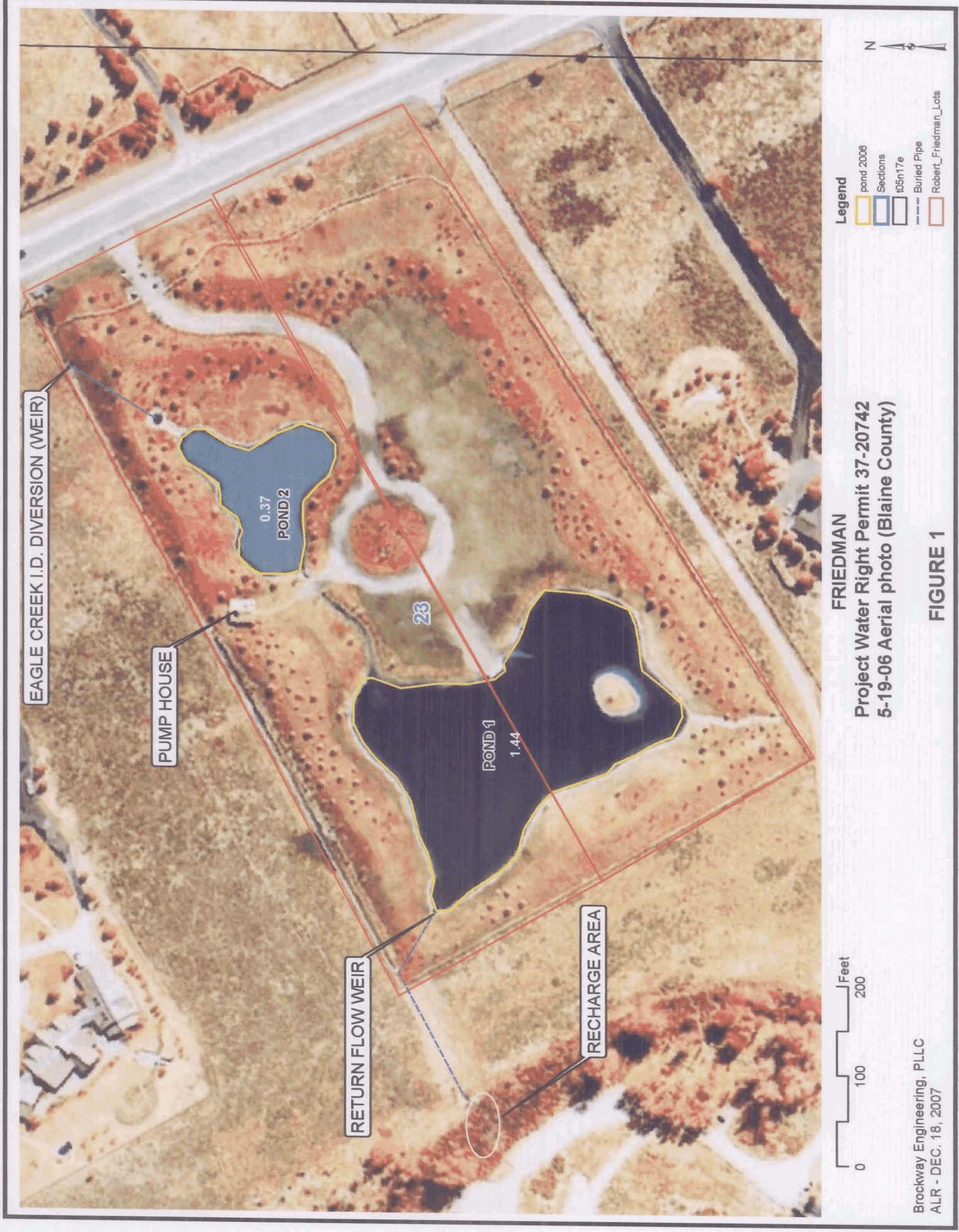
During the field exam, the system was winterized with ice on the ponds. The system had not been operated for over 30 days. However, the well was operated and the discharge capacity determined. The ponds water levels were about 2 inches below the overflow levels (Figure 3) indicating that the seepage rates for the lined ponds were low. No water was flowing into the system from the Eagle Creek Irrigation Co. ditch.

The discharge measured with the installed McCrometer flow meter was 1190 gpm which is in excess of the permitted 2.0 cfs (897.6 gpm), Figure 6. The measuring devices at the inlet from the Eagle Creek Irrigation Company and the outlet from the lower pond #2 are capable of measuring the inflow and outflow from the system.

There are 10 shares of Eagle Creek Irrigation Company listed in the name of Robert G. Friedman.

Pond volume is estimated at 14.4 acre feet in the two ponds which is less than the permitted volume of 16.0 acre feet.

All conditions for permit approval have been met.



FRIEDMAN
Project Water Right Permit 37-20742
5-19-06 Aerial photo (Blaine County)

FIGURE 1



FRIEDMAN
T. 0N., R.17E. SEC. 23 NENW
Project Water Right Permit 37-20742
Quad Map

Brockway Engineering, PLLC
ALR - DEC. 18, 2007

- Legend**
- Sections
 - Robert_Friedman_Lots
 - t05n17e





FIGURE 2
Diversion structure and weir from Eagle Creek Irrigation Co. ditch.



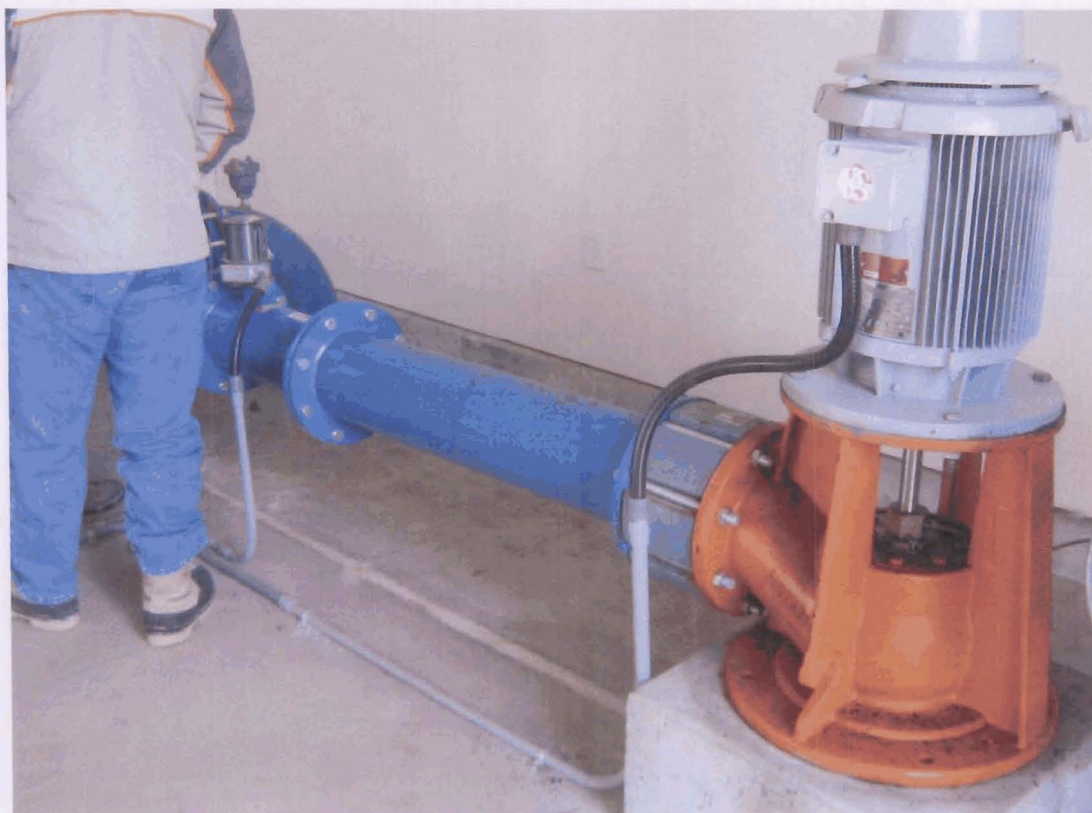
FIGURE 3
Outlet weir from pond #1 to recharge area.



FIGURE 4
Recharge Area-Gravel Swail



Recirculating and Irrigation Pumps and Water Meters



Well and Water Meter

FIGURE 5

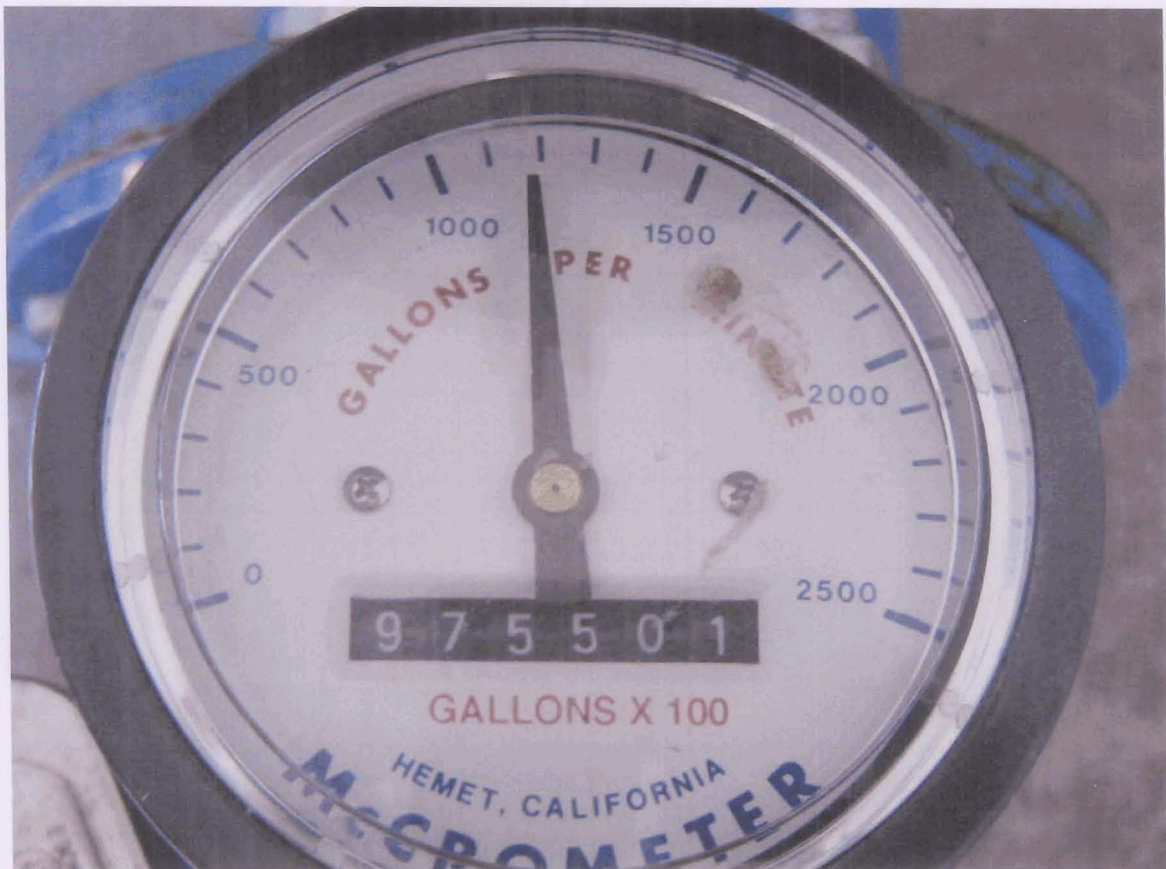


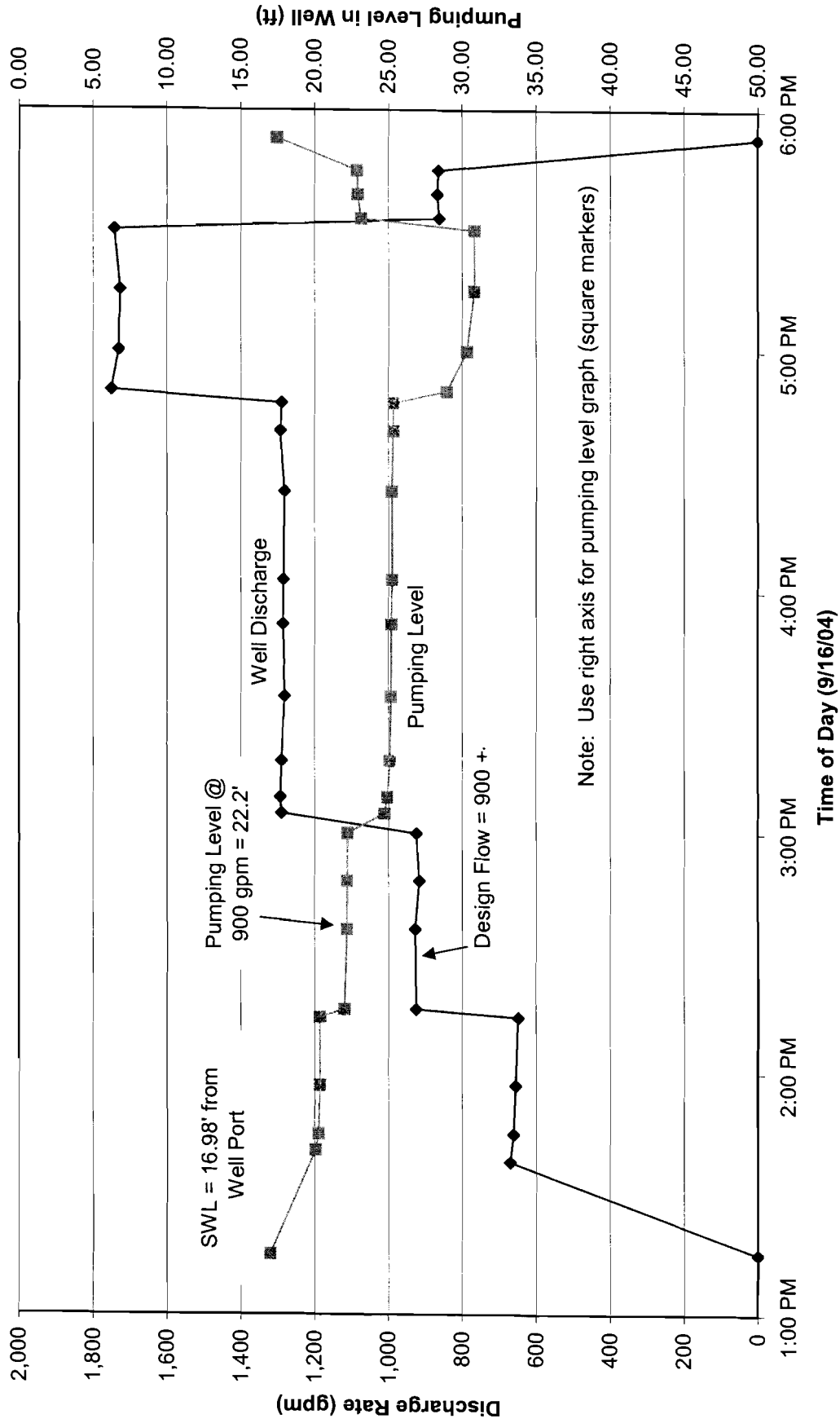
FIGURE 6
Flow meter on Well Discharge (McCrometer)

Friedman Pump Test - Fox Creek Ranch
Completed on September 16, 2004
Jeffrey S. Rau, P.E.

Note: Pumping level measured from bottom of 2" well probe port. Elev = 6110.37

Time	Discharge (gpm)	Pumping Level (ft)	Drawdown (ft)	WSE (approx) (ft)	Msmt Method
1:15 PM	0	16.98	0.00	6,093.39	Probe
1:38 PM	670				
1:41 PM		20.10	3.12	6,090.27	Probe
1:45 PM	661	20.29	3.31	6,090.08	Probe
1:57 PM	655	20.36	3.38	6,090.01	Probe
2:14 PM	648	20.37	3.39	6,090.00	Probe
2:16 PM	925	22.02	5.04	6,088.35	Probe
2:36 PM	927	22.20	5.22	6,088.17	Probe
2:48 PM	916	22.23	5.25	6,088.14	Probe
3:00 PM	924	22.23	5.25	6,088.14	Probe
3:05 PM	1,290	24.75	7.77	6,085.62	Probe
3:09 PM	1,293	24.94	7.96	6,085.43	Probe
3:18 PM	1,289	25.11	8.13	6,085.26	Probe
3:34 PM	1,281	25.19	8.21	6,085.18	Probe
3:52 PM	1,286	25.22	8.24	6,085.15	Probe
4:03 PM	1,284	25.25	8.27	6,085.12	Probe
4:25 PM	1,281	25.25	8.27	6,085.12	Probe
4:40 PM	1,293	25.35	8.37	6,085.02	Probe
4:47 PM	1,290	25.35	8.37	6,085.02	Probe
4:50 PM	1,750	28.98	12.00	6,081.39	Air Line
5:00 PM	1,730	30.36	13.38	6,080.01	Air Line
5:15 PM	1,727	30.83	13.85	6,079.54	Air Line
5:30 PM	1,742	30.83	13.85	6,079.54	Air Line
5:33 PM	862	23.17	6.19	6,087.20	Probe
5:39 PM	867	22.94	5.96	6,087.43	Probe
5:45 PM	864	22.90	5.92	6,087.47	Probe
5:53 PM	0	17.44	0.46	6,092.93	Probe

Fox Creek Ranch Well Test Robert Friedman - Owner



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Company Name Eaton Drilling & pump Service, Inc. Firm No. 25

Firm Official [Signature] Date 9/27/2004
and

Driller or Operator _____ Date 9/27/2004
(Sign once if Firm Official & Operator)

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