

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

Ident. No. 37-22876
RECEIVED
MAY 16 2014
DEPT. OF WATER RESOURCES
SOUTHERN REGION

1. Name of applicant(s) Flying Heart Ranch II Subdivision Owners Association Phone 208-788-2461
Name connector (check one): ☐ and ☐ or ☐ and/or
Mailing address P.O. Box 2163 City Hailey
State ID Zip 83333 Email _____
2. Source of water supply Ground Water which is a tributary of N/A
3. Location of point(s) of diversion:

TWP	RGE	SEC	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
3N	18E	32			SW	SE	BLAINE	GROUND WATER	Existing Well
3N	18E	32			SW	SE	BLAINE	GROUND WATER	Existing Well
2N	18E	5			NW	NE	BLAINE	GROUND WATER	Existing Well

4. Water will be used for the following purposes:
- Amount 10.0 cfs for Recreation purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 10.0 cfs for Wildlife purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 10.0 cfs for Aesthetics purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per year)
5. Total quantity to be appropriated is (a) 10.0 cubic feet per second (cfs) and/or (b) _____ acre feet per year (af).
6. Proposed diverting works:
- a. Describe type and size of devices used to divert water from the source. Three shallow wells designed to provide up to 10.0 cfs under this permit, when used in combination, not to exceed existing discharge authorized under 37-7767.
- b. Height of storage dam N/A feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height OR reservoirs with a total storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required? ☐ Yes ☒ No
- c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
- d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ No
- e. If well is already drilled, when? YES; drilling firm Ext'g wells also used for fire suppression or new wells; well was drilled for (well owner) Unknown; Drilling Permit No. _____
7. Description of proposed uses (if irrigation only, go to item 8):
- a. Hydropower; show total feet of head and proposed capacity in kW. _____
- b. Stockwatering; list number and kind of livestock. _____
- c. Municipal; complete and attach the Municipal Water Right Application Checklist.
- d. Domestic; show number of households _____
- e. Other; describe fully. Recreation use is non-consumptive and will augment decreased flows under 37-7767.
Combined flow rate under this permit and 37-7767 is not to exceed authorized diversion rate under 37-7767.

8. Description of place of use:

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below.
See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	18E	32															J,R		
2N	18E	5	J,R	J,R	J,R	J,R													
3N	18E	32															W		
2N	18E	5	W	W	W	W													

Total number of acres to be irrigated: _____

9. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping?

37-7767.

10. a. Who owns the property at the point of diversion? Applicant.

b. Who owns the land to be irrigated or place of use? Applicant.

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:
N/A.

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary.

Combined use under this permit and 37-7767 not to exceed authorized diversion rate under 37-7767. Please see attached narrative.

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).

13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Miles Pietsch
Signature of Applicant

Signature of Applicant

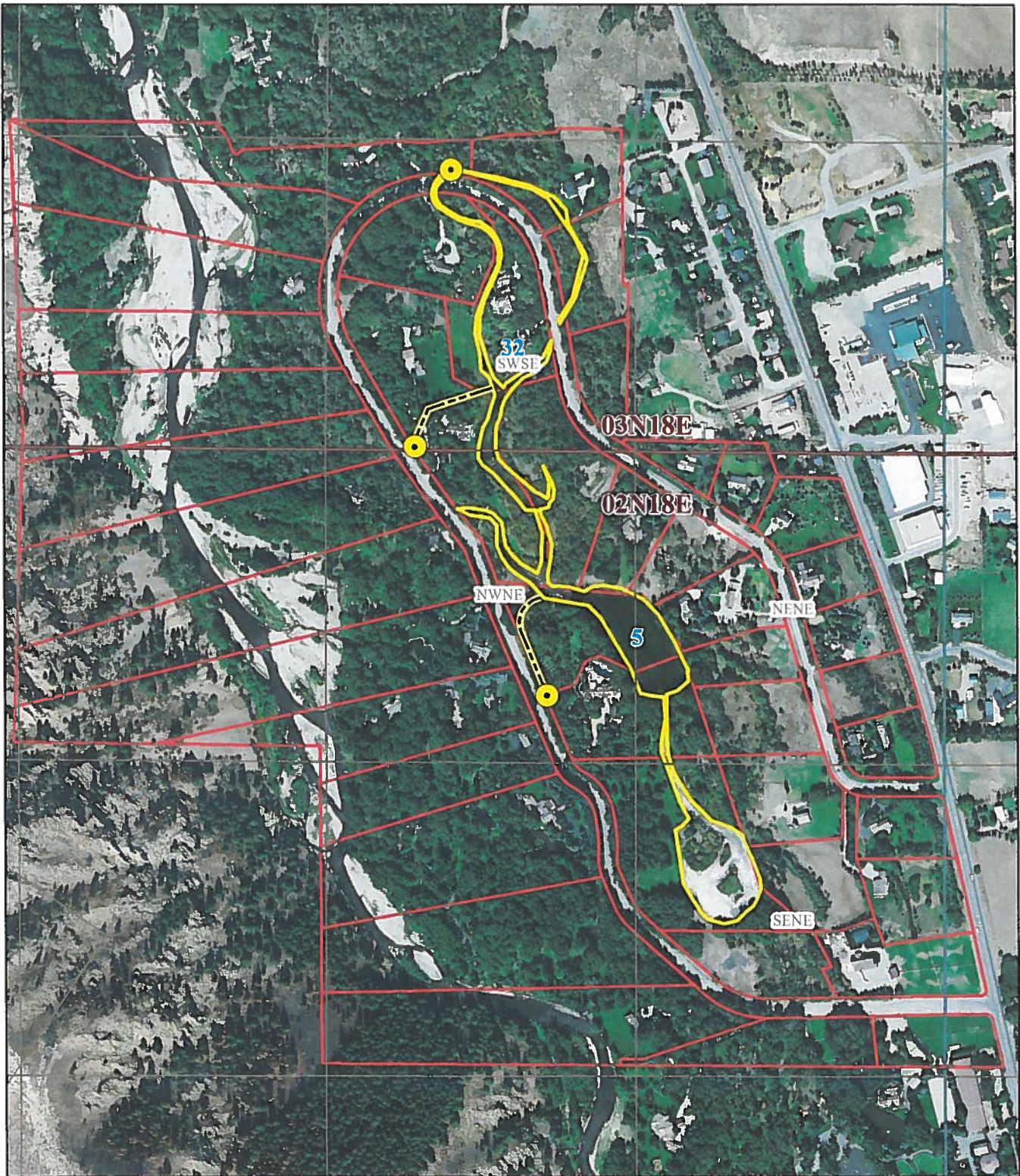
Miles Pietsch (President Flying Heart HCA)
Print Name (and title, if applicable)

Print Name (and title, if applicable)

For Department Use:

Received by ADm Date 5/16/14 Time 4:30 pm Preliminary check by _____

Fee \$ 610.00 Received by ADm Receipt No. 5034017 Date 5/16/14



0 150 300 600 Feet

**FLYING HEART RANCH II SUBDIVISION OWNERS ASSN
APPLICATION FOR PERMIT
NAIP 2013 AERIAL**

Legend

- Points of Diversion
- Pipeline
- Permit Place of Use
- FLYING_HEART_RANCH_SUB
- Townships
- Sections
- QQ

BROCKWAY ENGINEERING, PLLC.
ALR - Date: 5/15/2014

FIGURE #1



RECEIVED

MAY 16 2014

DEPT. OF WATER RESOURCES
SOUTHERN REGION

Narrative in Support of Water Right Permit Application
Flying Heart Ranch II Subdivision Owners Association
Ground Water Development for Spring Rehabilitation

Prepared by
C.E. Brockway P.E. PhD
Brockway Engineering P.L.L.C.
May 15, 2014

The Flying Heart Ranch II Subdivision is situated along the east side of the Big Wood River northwest of Hailey, Idaho. The location of the land and water features is shown on the map accompanying the permit application. The Subdivision consists of 47 lots and includes open space with open water utilized for recreation and aesthetics with water rights supplying water to the ponds from three springs emanating from the shallow aquifer. The spring water flows through the upper and lower ponds and returns to the Big Wood River at the south western edge of the subdivision. The three spring diversions are authorized under non-consumptive water right 37-7767 for 10.0 cfs.

The Flying Heart Ranch Owners Association ("FHROA") is proposing to cooperatively restore the natural functions and values of its spring creeks and wetlands. Restoration work will emphasize the ecological health of this unique area to the benefit of cold water fisheries, wetland dependent birds, and other wildlife in a manner that improves water quality. The Board of Directors of the FHROA, acting upon the recommendation of Miles Pietsch, Board President, and Board Member, Jack Bariteau, have enlisted and retained a highly respected team of water resource scientists and engineers to collaborate with conservation stakeholders to plan and complete this important work.

The project is currently focused on the primary goal of restoring historic spring flows to permitted levels and the reconnection of the Flying Heart spring creek system to the Big Wood River. When the spring and stream restoration work is complete, the visible water resources within Flying Heart Ranch will once again provide aesthetic and recreational opportunities to its owners and, through the reduction of sediment and the reshaping of its waterways, bring this extraordinary resource back to its more natural condition.

The discharge from the three springs has historically exceeded 10 cfs and is currently flowing at approximately 3.0 cfs. The proposed restoration will be severely hampered by the drastic decrease in spring flows; the decline in shallow aquifer water levels has resulted in decreased spring flows into and water quality problems within the ponds. In addition, several irrigation water rights which rely on outflow from the lower pond have been severely impacted, resulting in one water right holder (River Grove Ranch) having to develop an alternative diversion facility from the Big Wood River. Algal blooms and extensive benthic vegetation have plagued the ponds as a result of declining spring flows into the ponds. In addition, decreased flow velocities within the inlet spring streams have caused sediment accumulation in the gravel substrate. Sedimentation is an impediment to cold water salmonid spawning and benthic organism growth. A sustainable, functioning

and productive wildlife habitat and wetlands environment requires long term, reliable flows and maintenance of water levels in these natural ponds.

The attached water right permit application seeks to enhance the flows in the spring creeks to rates authorized under 37-7767 and is therefore being filed in response to the degrading environment conditions in the spring creek system. The attached water right permit seeks to allow diversion of groundwater not to exceed 10.0 cfs when combined with 37-7767.

Utilization of shallow pumped wells is deemed to be the most feasible procedure for increasing flows in the spring creeks. There are three major springs, as shown on the accompanying map, which contribute to the pond system. It is proposed to utilize three existing shallow wells currently utilized for fire suppression flows or install three shallow wells with pumps to produce at least 3.0 cfs per well to restore the spring creek flows to discharges authorized under 37-7767. The aquifer at these sites exhibits properties adequate to produce the proposed discharges. The applicants have performed pumping tests on the three installed wells and data indicates that each of the wells can be modified to yield 3.0 cfs or greater. Results from the pumping tests on the three wells are attached in Appendix A. The wells will be operated to provide the difference in total discharge between the natural spring discharge and the authorized discharge under 37-7767. In the event the discharge from the springs increases naturally, the proposed well's discharge rate would be reduced. The existing wells will continue to be utilized for fire suppression as authorized by the Wood River fire District Manager.

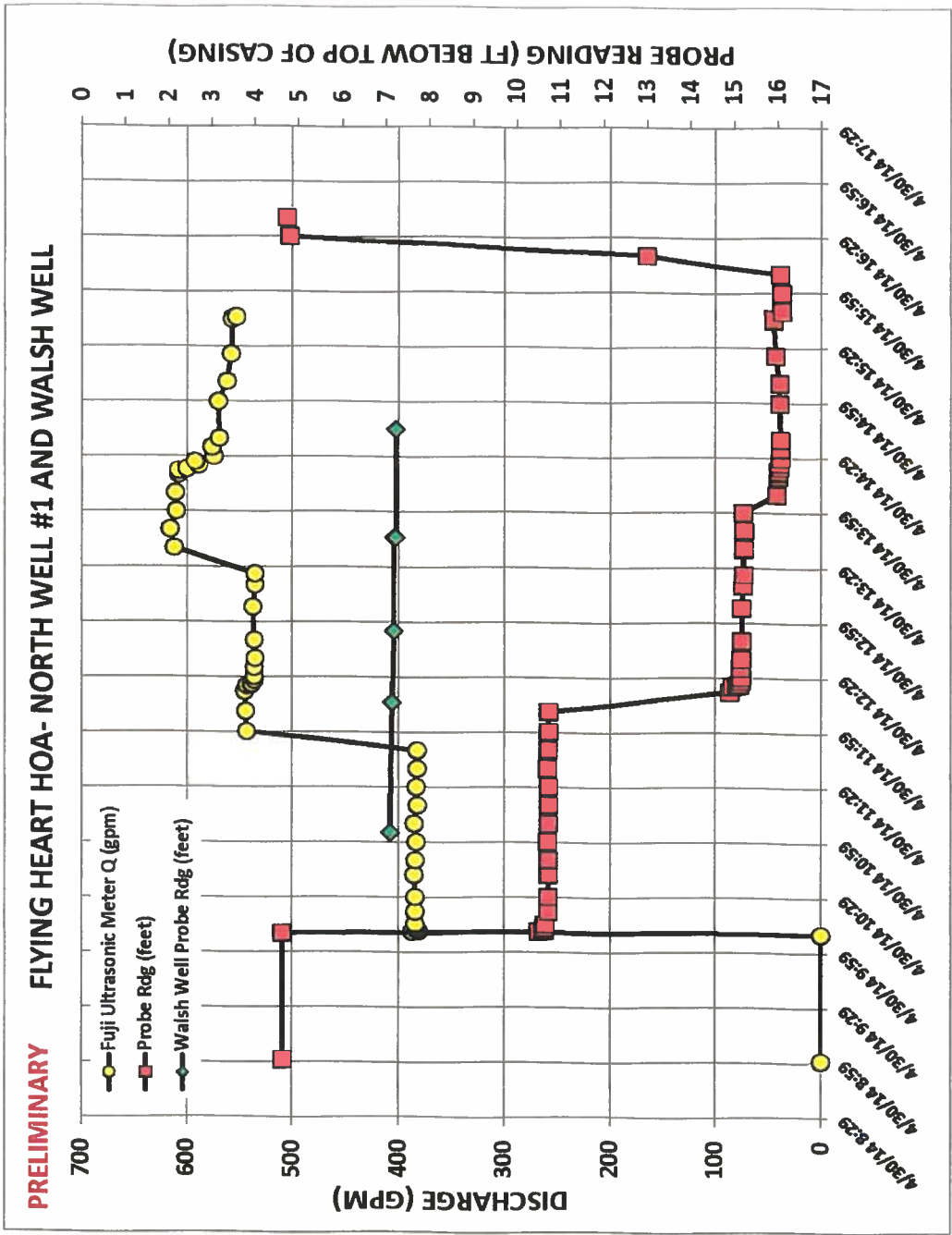
The project is expected to benefit fish and wildlife on-and off the property. Downstream benefits involve cleaner and colder water with increased base-flows entering the Big Wood River, a TMDL 303(d) listed stream, improved spawning conditions for cold-water salmonids and native fish, increased juvenile recruitment of salmonids to valuable downstream public fisheries, and the conservation of sensitive native non-game species. Off-site wildlife benefits involve the enhancement and creation of wetland and riparian habitats for breeding migratory birds, along with increased winter forage for free-ranging elk and deer.

The project intends to restore flows in three spring-fed streams, enhance more than a mile of spring creeks, and improve acres of wetlands and riparian areas. When complete, the land and water will be managed to sustain these conservation values. The demonstration aspects of this project are extremely high, and this project plans to provide a local example for similar problem-solving efforts.

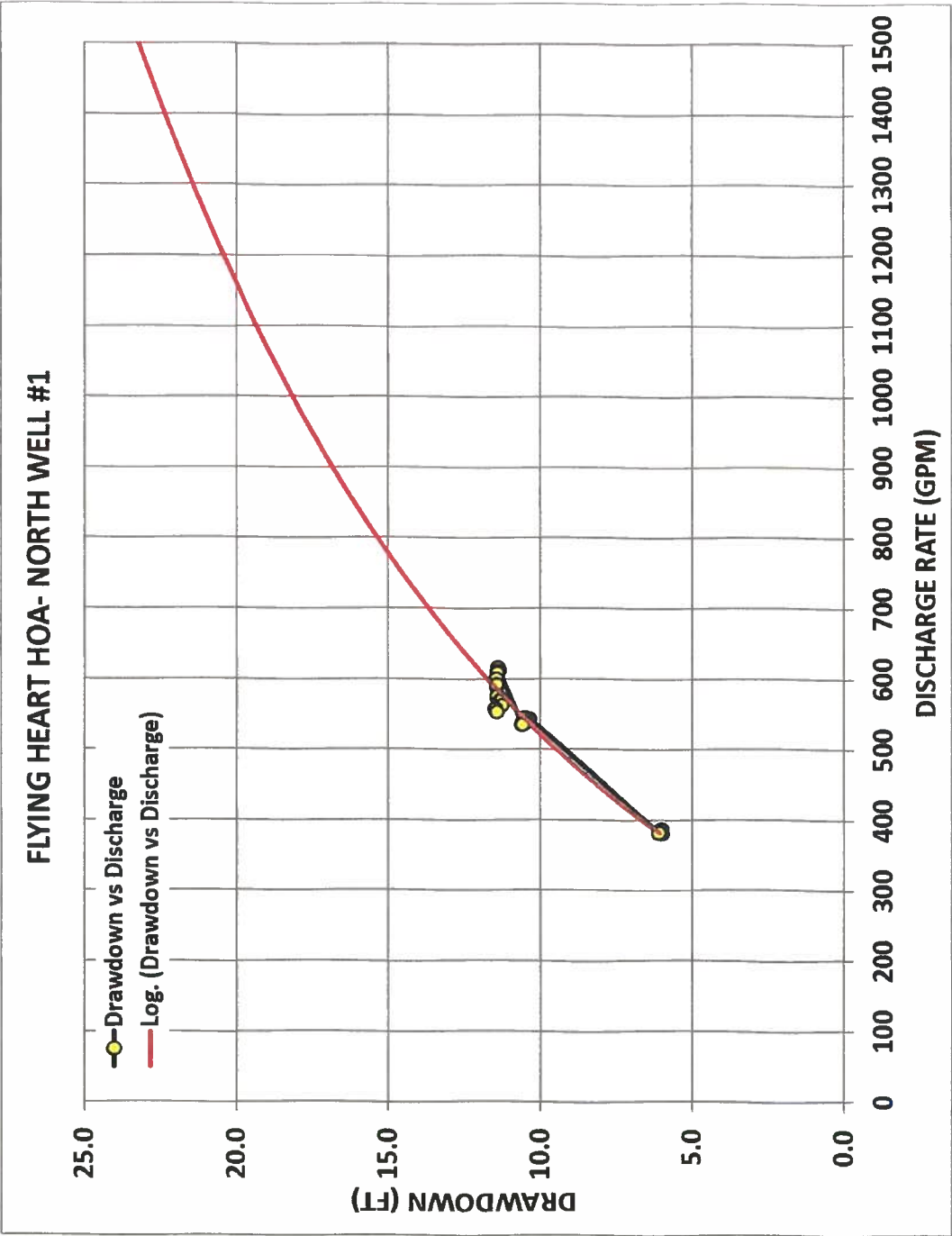
Development of additional groundwater from the local shallow aquifer will be non-consumptive and will not impact any existing diversions from the aquifer or from the Big Wood River. As mentioned, existing diversions from the Purdum Slough channel downstream of Flying Heart will be enhanced. The spring water from the Flying Heart returns to the Big Wood River approximately $\frac{3}{4}$ of a mile below the headwaters where the proposed three shallow wells will be constructed. Expansion of water right 37-7767 will not occur, in fact spring flows available under 37-7767 have decreased naturally and may decrease even more when the wells proposed under this application are utilized.

APPENDIX A

Well Test #1



Well Test #1



Narrative-Flying Heart Subdivision Water Permit Application

Well Test #1

FLYING HEART RANCH II- MODIFIED HYDRANT WELL #1 NORTH WELL

Brockway Engineering, PLLC

Date of test: 4/30/2014

Project: Flying Heart Ranch Sub II HOA Springflow Enhancement

Location: Well #1 North Modified hydrant

Outer Diameter: 8" well, meter on 6" PVC, OD = 4.5264"

Well Depth: 42' as measured with electric sounding tape

Casing Height: 12" or 1.0' above ground surface

Bowls @: Unknown

Remarks: Test done by Zach Latham with assistance from Jim at S.Erwin Excavation.

Actual Time	date	date and time	Elapsed Time (hr)	Well #1 Probe Rdg (feet)	Observed Drawdown (feet)	Test Meter Fuji Ultrasonic Meter Q (gpm)	Remarks
9:01:00	4/30/14	4/30/14 9:01	-	4.64		0.00	Static water level from top of casing
10:10:00	4/30/14	4/30/14 10:10	0:00:00	4.63		0.00	Static water level from top of casing
10:11:00	4/30/14	4/30/14 10:11	0:00:00				START PUMP- ball valve 1/2 way open
10:11:30	4/30/14	4/30/14 10:11	0:00:00	10.50	5.87		
10:12:00	4/30/14	4/30/14 10:12	0:00:00	10.60	5.87		
10:13:00	4/30/14	4/30/14 10:13	0:01:00	10.64	6.01	387.00	4.4 ft/s
10:15:00	4/30/14	4/30/14 10:15	0:05:00	10.63	6.00	381.00	4.4 ft/s
10:22:00	4/30/14	4/30/14 10:22	0:12:00	10.65	6.02	383.00	3,555 gallons, 4.4 ft/s
10:30:00	4/30/14	4/30/14 10:30	0:20:00	10.72	6.09	383.00	6,622 gallons
10:42:00	4/30/14	4/30/14 10:42	0:32:00	10.72	6.09	384.00	11,422 gallons, 4.4 ft/s
10:50:00	4/30/14	4/30/14 10:50	0:40:00	10.72	6.09	384.00	14,688 gallons, flow rate very steady, varies 2-3gpm
11:00:00	4/30/14	4/30/14 11:00	0:50:00	10.72	6.09	384.00	18,125 gallons
11:10:00	4/30/14	4/30/14 11:10	1:00:00	10.71	6.08	385.00	
11:20:00	4/30/14	4/30/14 11:20	1:10:00	10.72	6.09	384.00	24,489 gallons
11:30:00	4/30/14	4/30/14 11:30	1:20:00	10.72	6.09	383.00	
11:40:00	4/30/14	4/30/14 11:40	1:30:00	10.72	6.09	385.00	33,974 gallons
11:50:00	4/30/14	4/30/14 11:50	1:40:00	10.71	6.08	382.00	37,370 gallons
12:00:00	4/30/14	4/30/14 12:00	1:50:00	10.72	6.09	383.00	45,411 gallons
12:11:00	4/30/14	4/30/14 12:11	2:01:00	10.73	6.10	382.00	Discharge is clear, has been since start of test
12:22:00	4/30/14	4/30/14 12:22	2:12:00	10.73	6.10	382.00	49,763 gallons
12:25:00	4/30/14	4/30/14 12:25	2:15:00				Open Ball Valve to 3/4 open.
12:25:30	4/30/14	4/30/14 12:25	2:15:30	14.81	10.28		
12:26:00	4/30/14	4/30/14 12:26	2:16:00	14.98	10.35	543.00	51,734 gallons, 6.2 ft/s
12:28:00	4/30/14	4/30/14 12:28	2:18:00	15.07	10.44	544.00	Discharge is milky in color
12:30:00	4/30/14	4/30/14 12:30	2:20:00	15.12	10.49	545.00	53,800 gallons, 6.2 ft/s
12:35:00	4/30/14	4/30/14 12:35	2:25:00	15.15	10.52	543.00	56,730 gallons, 6.2 ft/s
12:40:00	4/30/14	4/30/14 12:40	2:30:00	15.17	10.54	539.00	Discharge clearing up, looks similar to 1st step
12:50:00	4/30/14	4/30/14 12:50	2:40:00	15.15	10.52	538.00	
13:08:00	4/30/14	4/30/14 13:08	2:58:00	15.17	10.54	536.00	75,243 gallons, 6.1 ft/s
13:20:00	4/30/14	4/30/14 13:20	3:10:00	15.18	10.55	536.00	
13:26:00	4/30/14	4/30/14 13:26	3:16:00	15.18	10.55	536.00	84,169 gallons, 6.1 ft/s
13:40:00	4/30/14	4/30/14 13:40	3:30:00	15.21	10.58	535.00	Totalizer has stopped
13:50:00	4/30/14	4/30/14 13:50	3:40:00	15.22	10.59	536.00	
14:00:00	4/30/14	4/30/14 14:00	3:50:00	15.22	10.59	537.00	
14:10:00	4/30/14	4/30/14 14:10	4:00:00	15.23	10.60	535.00	6.1 ft/s
14:20:00	4/30/14	4/30/14 14:20	4:10:00	15.21	10.58	535.00	6.1 ft/s
14:22:00	4/30/14	4/30/14 14:22	4:12:00				Ball valve full open.
14:23:00	4/30/14	4/30/14 14:23	4:13:00	15.98	11.35	612.00	7.0 ft/s
14:25:00	4/30/14	4/30/14 14:25	4:15:00	16.02	11.39	616.00	Water detected between 15.90-16.02 on elec tape
14:27:00	4/30/14	4/30/14 14:27	4:17:00	16.02	11.39	610.00	Discharge a little milky in color, pumping at intake?
14:30:00	4/30/14	4/30/14 14:30	4:20:00	16.02	11.39	611.00	consistent detection at 16.02' on elec tape
14:35:00	4/30/14	4/30/14 14:35	4:25:00	16.04	11.41	608.00	
14:40:00	4/30/14	4/30/14 14:40	4:30:00	16.04	11.41	608.00	
15:00:00	4/30/14	4/30/14 15:00	4:50:00	16.08	11.45	600.00	
15:11:00	4/30/14	4/30/14 15:11	5:01:00	16.06	11.43	589.00	
15:26:00	4/30/14	4/30/14 15:26	5:16:00	16.07	11.44	592.00	Water detected between 15.90-16.07 on elec tape
15:45:00	4/30/14	4/30/14 15:45	5:35:00	16.04	11.41	574.00	3 bars on Fuji Meter
15:46:00	4/30/14	4/30/14 15:46	5:36:00				re-aligned meter w/new gel, now 5 bars, totalizer functioning
15:50:00	4/30/14	4/30/14 15:50	5:40:00	16.04	11.41	576.00	
16:00:00	4/30/14	4/30/14 16:00	5:50:00	15.95	11.32	569.00	
16:10:00	4/30/14	4/30/14 16:10	6:00:00	15.90	11.27	570.00	
16:20:00	4/30/14	4/30/14 16:20	6:10:00	15.90	11.27	562.00	106,390 gallons, water detected between 15.80-16.01
16:30:00	4/30/14	4/30/14 16:30	6:20:00	16.10	11.47	558.00	Water detected between 15.85-16.10 on elec tape
16:40:00	4/30/14	4/30/14 16:40	6:30:00	16.10	11.47	557.00	116,134 gallons
16:48:00	4/30/14	4/30/14 16:48	6:38:00	16.06	11.43	553.00	
16:50:00	4/30/14	4/30/14 16:50	6:40:00				STOP PUMP.
16:50:20	4/30/14	4/30/14 16:50	6:40:20	13.00			
16:50:45	4/30/14	4/30/14 16:50	6:40:45	4.80			
17:07:00	4/30/14	4/30/14 17:07	6:57:00	4.73			121,949 gallons totalized, less than actual total.

Narrative-Flying Heart Subdivision Water Permit Application

Well Test #1

FLYING HEART RANCH II- WALSH WELL

Brockway Engineering, PLLC

Date of test: 4/30/2014

Project: Flying Heart Ranch Sub II HOA Springflow Enhancement

Location: Walsh Doestic Well Observation well

Outer Diameter: 6" domestic well

Well Depth: Unknown

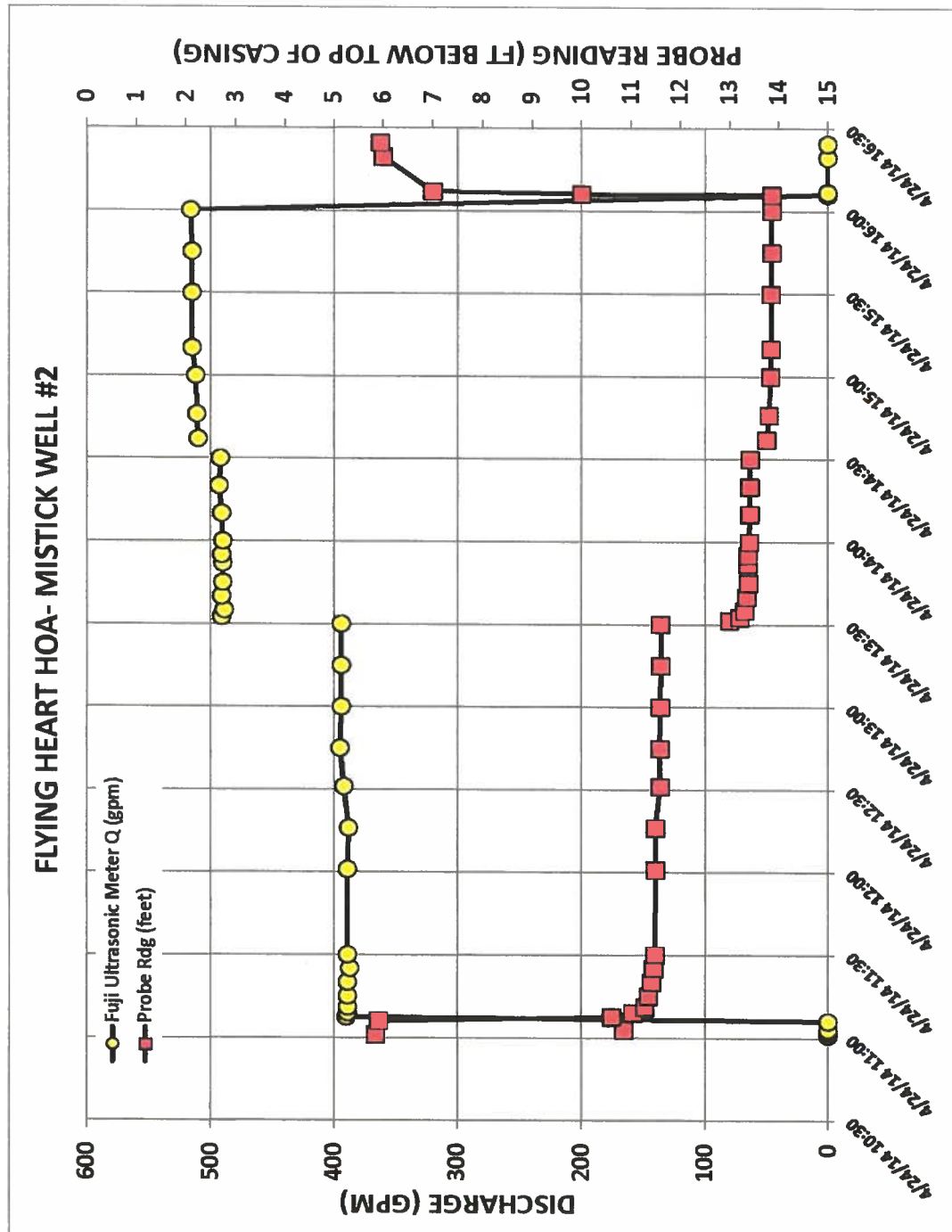
Casing Height: ~ 4"

Bowls @: Unknown

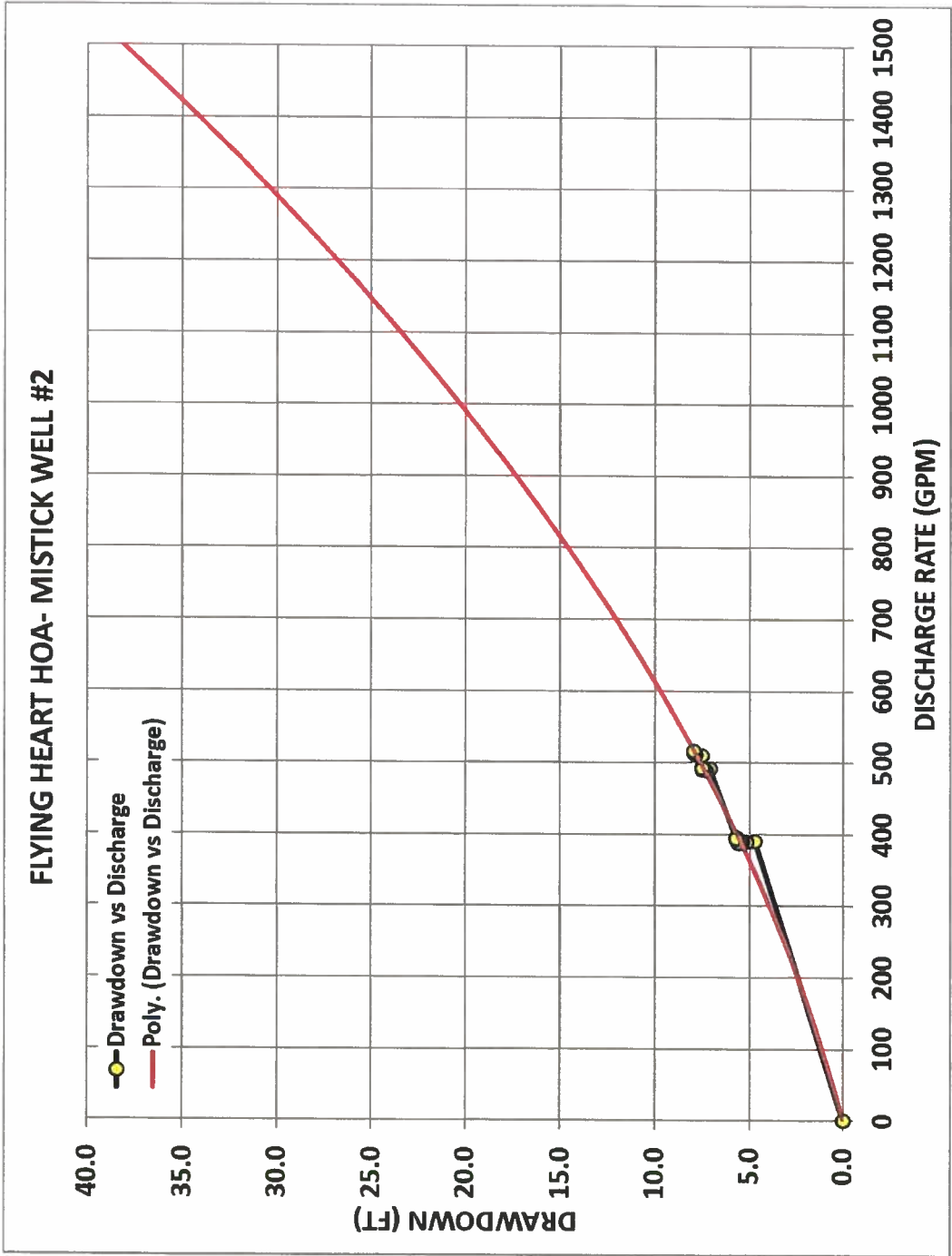
Remarks: Test done by Zach Latham with assistance from Jim at S.Erwin Excavation.

Actual Time	date	date and time	Elapsed Time (hr)	Walsh Well Probe Rdg (feet)	Observed Drawdown (feet)	Test Meter Fuji Ultrasonic Meter Q (gpm)	Remarks
10:02:00	4/30/14	4/30/14 10:02	0:00:00	7.05			Static water level from top of casing
10:11:00							START PUMP- ball valve 1/2 way open
11:05:00	4/30/14	4/30/14 11:05	0:00:00	7.09			
12:16:00	4/30/14	4/30/14 12:16	0:00:00	7.14	0.09		
12:25:00	4/30/14	4/30/14 12:25	0:00:00				Open ball valve to 3/4 open
12:55:00	4/30/14	4/30/14 12:55	0:30:00	7.18	0.13		
13:46:00	4/30/14	4/30/14 13:46	3:44:00	7.18	0.13		
14:22:00	4/30/14	4/30/14 14:22	4:20:00				Open ball valve full open
14:45:00	4/30/14	4/30/14 14:45	4:43:00	7.21	0.16		
15:16:00	4/30/14	4/30/14 15:16	5:14:00	7.22	0.17		
16:43:00	4/30/14	4/30/14 16:43	6:41:00	7.22	0.17		
16:50:00	4/30/14	4/30/14 16:50	6:48:00				STOP PUMP.
16:00:00	5/1/14	5/1/14 16:00	29:58:00	7.03	-0.02		

Well Test #2



Well Test #2



Narrative-Flying Heart Subdivision Water Permit Application

Well Test #2

FLYING HEART RANCH II- MODIFIED HYDRANT WELL #2 MISTICK

Brockway Engineering, PLLC

Date of test: 4/24/2014

Project: Flying Heart Ranch Sub II HOA Springflow Enhancement

Location: Well #2- Mistick

Outer Diameter: 8" well, meter on 4" PVC, OD = 4.5264"

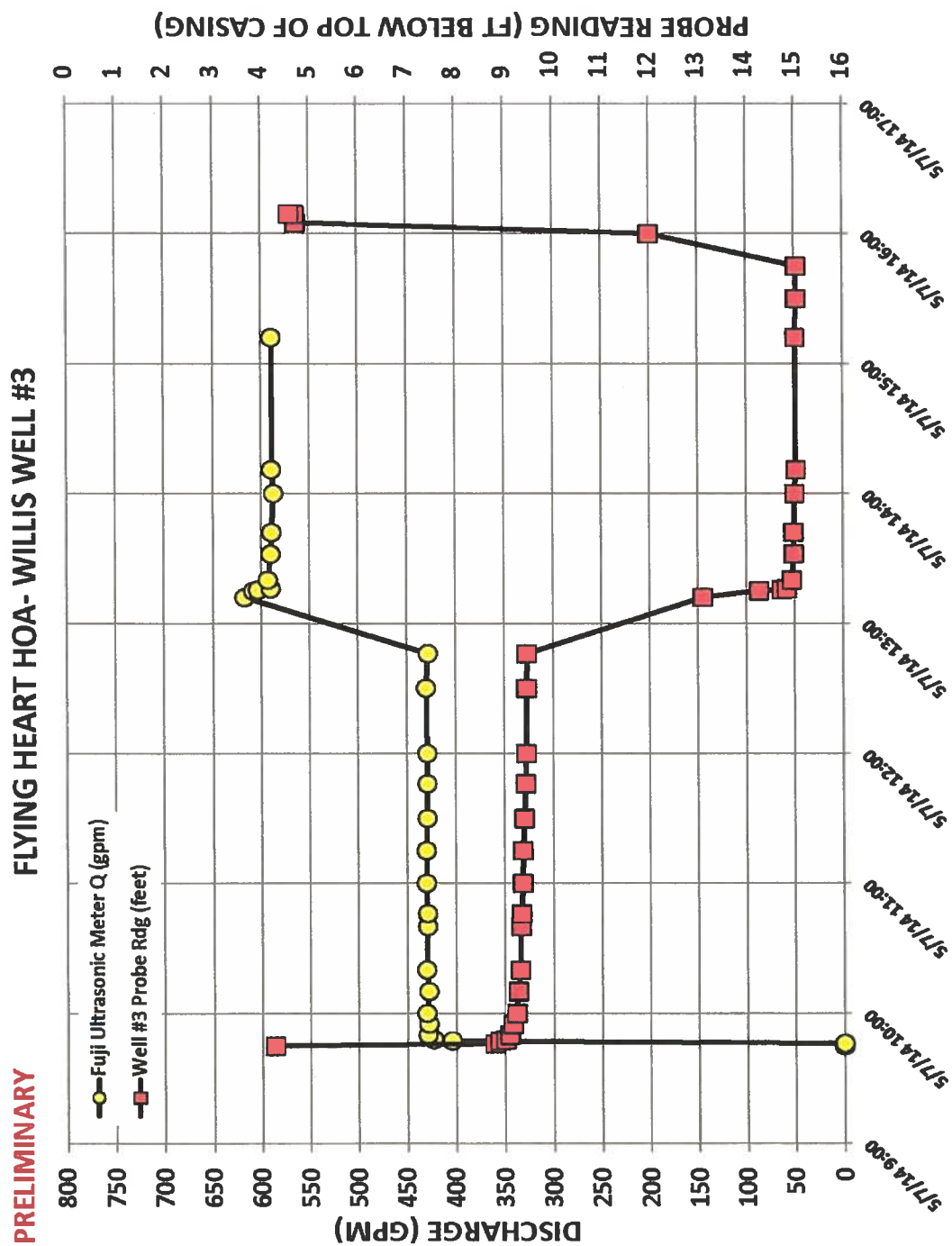
Well Depth: 120'

Bowls @: ?

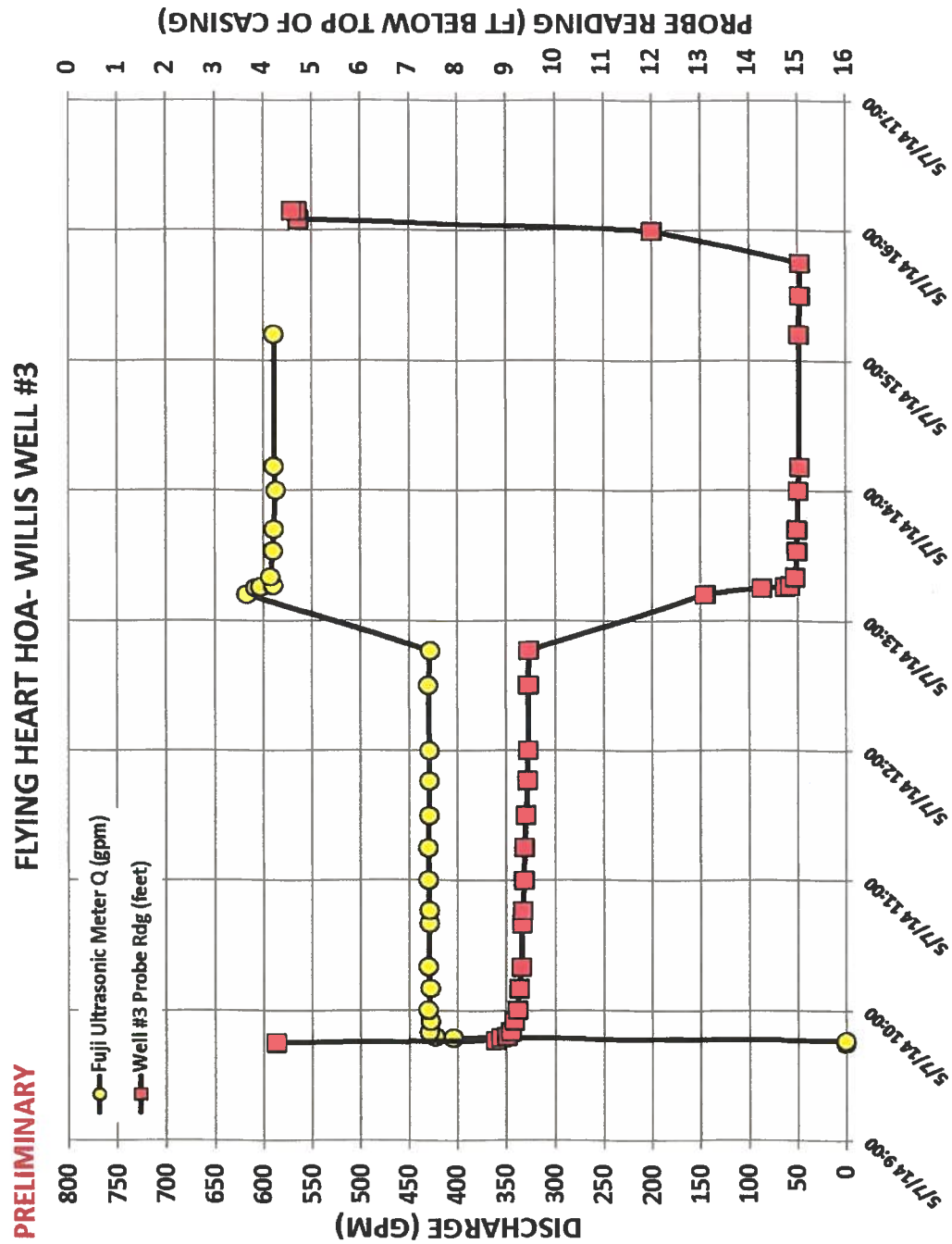
Remarks: Test done by Zach Latham with assistance from Jim at S.Erwin Excavation.

Actual Time	date	date and time	Elapsed Time (hr)	Probe Rdg (feet)	Observed Drawdown (feet)	Test Meter Fuji Ultrasonic Meter Q (gpm)	Remarks
11:01:00	4/24/14	4/24/14 11:01	-	5.85	0.00	0.00	Static water level.
11:02:00	4/24/14	4/24/14 11:02	0:00:00			0.00	Pump Start.
11:02:40	4/24/14	4/24/14 11:02	0:00:00	10.85	5.00	0.00	
11:03:00	4/24/14	4/24/14 11:03	0:00:00			0.00	Stop pump, Mistick culvert being washed out.
11:06:00	4/24/14	4/24/14 11:06	0:00:00	5.91	0.00	0.00	Pump Start.
11:07:30	4/24/14	4/24/14 11:07	0:01:30	10.61	4.70	390.00	Ball valve closed 1/2 way.
11:09:00	4/24/14	4/24/14 11:09	0:07:00	11.05	5.14	389.00	Steady discharge rate.
11:11:00	4/24/14	4/24/14 11:11	0:09:00	11.29	5.38	389.00	
11:15:00	4/24/14	4/24/14 11:15	0:13:00	11.36	5.45	389.00	
11:20:00	4/24/14	4/24/14 11:20	0:18:00	11.42	5.51	389.00	
11:25:00	4/24/14	4/24/14 11:25	0:23:00	11.46	5.55	387.00	Velocity = 9.7 ft/s
11:30:00	4/24/14	4/24/14 11:30	0:28:00	11.49	5.58	389.00	
12:01:00	4/24/14	4/24/14 12:01	0:59:00	11.50	5.59	389.00	
12:16:00	4/24/14	4/24/14 12:16	1:14:00	11.50	5.59	388.00	
12:31:00	4/24/14	4/24/14 12:31	1:29:00	11.59	5.68	392.00	No change to ball valve position.
12:45:00	4/24/14	4/24/14 12:45	1:43:00	11.59	5.68	395.00	
13:00:00	4/24/14	4/24/14 13:00	1:58:00	11.60	5.69	394.00	Total gallons = 44,568
13:15:00	4/24/14	4/24/14 13:15	2:13:00	11.61	5.70	394.00	Total gallons = 50,189
13:30:00	4/24/14	4/24/14 13:30	2:28:00	11.61	5.70	394.00	
13:31:00	4/24/14	4/24/14 13:31	2:29:00				Open ball valve to 3/4 open.
13:31:30	4/24/14	4/24/14 13:31	2:29:30	13.00	7.09		
13:32:30	4/24/14	4/24/14 13:32	2:30:30	13.21	7.30	491.00	Velocity = 12.36 ft/s
13:35:00	4/24/14	4/24/14 13:35	2:33:00	13.31	7.40	489.00	
13:40:00	4/24/14	4/24/14 13:40	2:38:00	13.35	7.44	491.00	Total gallons = 61,118
13:45:00	4/24/14	4/24/14 13:45	2:43:00	13.39	7.48	490.00	Total gallons = 63,821 Velocity = 12.38 ft/s
13:52:00	4/24/14	4/24/14 13:52	2:50:00	13.38	7.47	490.00	Total gallons = 67,341
13:55:00	4/24/14	4/24/14 13:55	2:53:00	13.38	7.47	491.00	
14:00:00	4/24/14	4/24/14 14:00	2:58:00	13.40	7.49	490.00	
14:10:00	4/24/14	4/24/14 14:10	3:08:00	13.41	7.50	491.00	Total gallons = 76,038
14:20:00	4/24/14	4/24/14 14:20	3:18:00	13.41	7.50	493.00	
14:30:00	4/24/14	4/24/14 14:30	3:28:00	13.42	7.51	492.00	Total gallons = 86,110 Velocity = 12.44 ft/s
14:35:00	4/24/14	4/24/14 14:35	3:33:00				Open ball valve full open.
14:37:00	4/24/14	4/24/14 14:37	3:35:00	13.76	7.85	510.00	
14:46:00	4/24/14	4/24/14 14:46	3:44:00	13.81	7.90	511.00	
15:00:00	4/24/14	4/24/14 15:00	3:58:00	13.84	7.93	512.00	
15:10:00	4/24/14	4/24/14 15:10	4:08:00	13.85	7.94	515.00	Discharge = 1.14 cfs
15:30:00	4/24/14	4/24/14 15:30	4:28:00	13.85	7.94	515.00	*47.6 oF at outlet, Total gallons = 116,562
15:45:00	4/24/14	4/24/14 15:45	4:43:00	13.86	7.95	515.00	Total gallons = 124,276
16:00:00	4/24/14	4/24/14 16:00	4:58:00	13.86	7.95	516.00	Total gallons = 132,224
16:06:00	4/24/14	4/24/14 16:06	5:04:00	13.86	7.95	0.00	Stop pump, Total test gallons = 134,957
16:08:00	4/24/14	4/24/14 16:06	5:04:06	10.00	4.09	0.00	
16:06:56	4/24/14	4/24/14 16:06	5:04:56	7.00	1.09	0.00	
16:19:30	4/24/14	4/24/14 16:19	5:17:30	6.00	0.09	0.00	
16:24:30	4/24/14	4/24/14 16:24	5:22:30	5.95	0.04	0.00	

Well Test #3



Pump Test #3



Narrative-Flying Heart S Division Water Permit Application

Pump Test #3

FLYING HEART RANCH II- MODIFIED HYDRANT WELL #3 WILLIS WELL

Brockway Engineering, PLLC

Date of test: 5/7/2014

Project: Flying Heart Ranch Sub II HOA Springflow Enhancement

Location: Well #3 Willis Modified hydrant

Outer Diameter: 8" well, meter on 6" PVC, OD = 4.5264"

Well Depth: 20.6' as measured with electric sounding tape

Casing Height: 8" or 0.75' above ground surface

Bowls @: Unknown

Remarks: Test done by Zach Latham with assistance from Jim at S.Erwin Excavation.

Actual Time	date	date and time	Elapsed Time (hr)	Well #3 Probe Rdg (feet)	Observed Drawdown (feet)	Test Meter Fuji Ultrasonic Meter Q (gpm)	Remarks
9:45:00	5/7/14	5/7/14 9:45	-	4.26		0.00	Static water level from top of casing
9:48:00	5/7/14	5/7/14 9:48	0:00:00			0.00	START PUMP- ball valve 1/2 way open
9:47:20	5/7/14	5/7/14 9:47	0:00:00	8.80	4.54		
9:48:00	5/7/14	5/7/14 9:48	0:00:00	8.90	4.64	404.00	4.7 ft/s
9:50:00	5/7/14	5/7/14 9:50	0:00:00	9.02	4.76	423.00	715 gallons, 4.8 ft/s
9:55:00	5/7/14	5/7/14 9:55	0:05:00	9.10	4.84	429.00	
10:00:00	5/7/14	5/7/14 10:00	0:14:00	9.17	4.91	428.00	4,972 gallons
10:10:00	5/7/14	5/7/14 10:10	0:24:00	9.24	4.98	430.00	9,511 gallons
10:20:00	5/7/14	5/7/14 10:20	0:34:00	9.27	5.01	428.00	13,563 gallons
10:40:00	5/7/14	5/7/14 10:40	0:54:00	9.32	5.06	430.00	22,148 gallons
10:46:00	5/7/14	5/7/14 10:46	1:00:00	9.33	5.07	429.00	44.8 °F, Willis pond outlet channel at capacity.
11:00:00	5/7/14	5/7/14 11:00	1:14:00	9.35	5.09	429.00	30,745 gallons
11:15:00	5/7/14	5/7/14 11:15	1:29:00	9.37	5.11	430.00	37,640 gallons
11:30:00	5/7/14	5/7/14 11:30	1:44:00	9.38	5.12	430.00	44,485 gallons
11:46:00	5/7/14	5/7/14 11:46	2:00:00	9.41	5.15	429.00	50,585 gallons
12:00:00	5/7/14	5/7/14 12:00	2:14:00	9.44	5.18	429.00	56,505 gallons
12:30:00	5/7/14	5/7/14 12:30	2:44:00	9.45	5.19	429.00	69,566 gallons
12:46:00	5/7/14	5/7/14 12:46	3:00:00	9.46	5.20	430.00	76,283 gallons
13:12:00	5/7/14	5/7/14 13:12	3:26:00	9.47	5.21	428.00	87,661 gallons
13:15:00	5/7/14	5/7/14 13:15	3:29:00				Ball valve full open.
13:15:25	5/7/14	5/7/14 13:15	3:29:25	13.10			
13:16:00	5/7/14	5/7/14 13:16	3:30:00	14.27	10.01	617.00	Discharge water silty/slightly turbid
13:20:00	5/7/14	5/7/14 13:20	3:34:00	14.74	10.48		
13:32:00	5/7/14	5/7/14 13:32	3:46:00	14.85	10.59	608.00	99,715 gallons, discharge water clear.
13:42:00	5/7/14	5/7/14 13:42	3:56:00	14.95	10.59	603.00	
14:00:00	5/7/14	5/7/14 14:00	4:14:00	14.99	10.89	590.00	Discharge temperature = 45.0 °F
14:11:00	5/7/14	5/7/14 14:11	4:25:00	14.99	10.73	593.00	123,206 gallons
15:12:00	5/7/14	5/7/14 15:12	5:26:00	15	10.73	590.00	159,547 gallons
15:30:00	5/7/14	5/7/14 15:30	5:44:00	15.04	10.78	589.00	
15:45:00	5/7/14	5/7/14 15:45	5:59:00	15.03	10.77	587.00	179,365 gallons
16:00:00	5/7/14	5/7/14 16:00	6:14:00	15.05	10.79	589.00	187,622 gallons
16:05:00	5/7/14	5/7/14 16:05	6:19:00	15.05	10.79	589.00	190,670 gallons
16:09:00	5/7/14	5/7/14 16:09	6:23:00				PUMP STOP.
16:09:06	5/7/14	5/7/14 16:09	6:23:06	12.00	7.74		
16:09:30	5/7/14	5/7/14 16:09	6:23:30	4.73	0.47		
16:10:30	5/7/14	5/7/14 16:10	6:24:30	4.70	0.44		192,107 total gallons pumped
16:29:00	5/7/14	5/7/14 16:29	6:43:00	4.59	0.33		Well cap probe hole cap threaded back into plate.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, Idaho 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 30, 2014

FLYING HEART RANCH II SUBDIVISION OWNERS ASSN
PO BOX 2163
HAILEY, ID 83333

RE: Application For Permit No. 37-22876

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the **IDAHO MOUNTAIN EXPRESS** on **6/4/2014** and **6/11/2014**. Protests to this application may be submitted for a period ending ten (10) days after the second publication (**June 23, 2014**).

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

Denise Maline
Administrative Assistant

cc:

BROCKWAY ENGINEERING PLLC
C/O CHARLES E BROCKWAY
2016 WASHINGTON ST N STE 4
TWIN FALLS, ID 83301



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, Idaho 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 30, 2014

KEVIN LAKEY
WATER DISTRICT #37
107 W 1ST ST
SHOSHONE, ID 83352

RE: Application For Permit No.(s): 37-22876

Dear Mr. Lakey:

A copy of the above referenced application is enclosed. Please review the application, then complete the enclosed recommendation form as necessary, and return it to this office within 21 days of the date of this letter.

If the application is approved, IDWR will include appropriate standard conditions of approval for a water right located within a water district, such as regulation by the watermaster, lockable controlling works, and/or measuring devices. Any special conditions or other concerns you have related to this application should be specifically addressed in your recommendation.

IDWR's regional offices can finish reviewing an unprotested application as soon as the protest period has past. Your prompt response to this request will ensure that your recommendation can be considered. If IDWR has not received your written recommendation within 21 days from the date of this letter, IDWR will presume that you do not oppose approval of the application and that you have no comments for IDWR to consider.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

Maline, Denise

From: Maline, Denise
Sent: Thursday, May 29, 2014 4:57 PM
To: Idaho Mountain Express
Subject: LEGAL NOTICE
Attachments: Idaho Mountain Express Cover Letter.docx; Idaho Mountain Express Ad.docx

Attached please find (1) legal notice being submitted for publication on June 4th & 11th, 2014. Please feel free to contact me if you have any questions, or if you are not able to run the ad on the dates requested.

Thank you in advance,

Denise Maline
Administrative Assistant
Idaho Dept of Water Resources, Southern Region
650 Addison Ave W, Ste 500
Twin Falls, ID 83301
(208) 736-3033
denise.maline@idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region • 650 Addison Ave W, Suite 500 • Twin Falls, Idaho 83301-5858

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

May 29, 2014

LEGAL NOTICE DEPARTMENT
IDAHO MOUNTAIN EXPRESS
PO BOX 1013
KETCHUM, ID 83340

RE: Application For Permit No.(s): 37-22876

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before June 23, 2014. Your cooperation is appreciated.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

37-22876

FLYING HEART RANCH II SUBDIVISION OWNERS ASSN

PO BOX 2163

HAILEY, ID 83333

Point of Diversion SWSE S32 T03N R18E BLAINE County Source GROUND WATER Tributary

Point of Diversion SWSE S32 T03N R18E BLAINE County Source GROUND WATER Tributary

Point of Diversion NWNE S5 T02N R18E BLAINE County Source GROUND WATER Tributary

Use: AESTHETIC 01/01 to 12/31 10 CFS

Use: RECREATION 01/01 to 12/31 10 CFS

Use: WILDLIFE 01/01 to 12/31 10 CFS

Total Diversion: 10 CFS

Date Filed: 5/16/2014

Place Of Use: RECREATION, WILDLIFE, AESTHETIC

T02N R18E S5 NE (ALL)

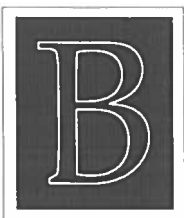
T03N R18E S32 SWSE

Application proposes diverting up to 10 cfs of ground water from three new wells for aesthetic, recreation and wildlife uses to restore flows in spring fed streams. Application also proposes limiting this proposal to no more than 10 cfs when combined with existing right 37-7767 which allows for diversion of 10 cfs from springs for recreational use. The properties and points of diversion are located within the Flying Heart Ranch II Subdivision located approximately 1.1-1.8 mi. north and 0.7-1.1 mi. west of the center of Hailey on the west side of HWY 75.

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Southern Region office at (208) 736-3033; or for a full description of the right(s), please visit our website at www.idwr.idaho.gov and search under New Water Right Applications. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Southern Region, 650 Addison Ave W, Ste 500, Twin Falls, ID 83301 together with a protest fee of \$25.00 for each application on or before June 23, 2014. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on June 4th & 11th, 2014



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

May 16, 2014

Mr. Allen Merritt
Idaho Department of Water Resources
650 Addison Ave. W., Ste. 500
Twin Falls, ID 83301

RECEIVED

MAY 16 2014

DEPT. OF WATER RESOURCES
SOUTHERN REGION

Re: Flying Heart Subdivision HOA Application for Permit

Dear Allen,

Sometime ago we met with the Director regarding decreased spring flows in the Flying Heart water system at the Purdum Slough north of Hailey. It was determined that the sources of water for the spring fed springs and the ponds on the subdivision, were considered surface water and that there was no way administratively to hydrologically increase the natural spring flow up to the decreed discharge of 10 cfs allowed by the existing water rights.

Therefore, based on our discussions I am submitting, on behalf of the Flying Heart Subdivision HOA, an application to develop non-consumptive groundwater wells from the shallow aquifer to provide sufficient water to rehabilitate the historical spring channels. The attached application for permit includes data obtained from well pumping tests for 3 wells on the subdivision, which are being utilized for fire suppression when needed. Also the application includes an aerial photo and location of the existing wells which are proposed for development of the groundwater, a narrative explaining the purpose and concept for the groundwater development, and a check for the permit application fee.

As usual we are anxious to proceed with this project and would appreciate your rapid processing of this application. Please feel free to call me if you need any additional information or have any questions.

Sincerely,

Charles E. Brockway, P.E.

Encls: Application for Permit
Aerial Photo

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506

5034017
#610²²

Narrative
Brockway Engineering Check #12025 for \$610.00

Cc: Will Miller
Jack Bariteau