

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23085

Exam Date: 10/11/2012

1. Current Owner: TERRACE LAKES WATER CO
C/O ILENE JOHNSON
950 N COLE RD
BOISE ID 83704
(208) 377-2121
2. Accompanied by: Terry Tucker
Phone No: (208) 462-3250
Address:
Relationship to Permit Holder: Maintenance Manager

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 65-12985, 65-13457, 65-7140, 65-10782, 65-10780, 65-3237F, 65-3002F.
2. Other water rights with the same point of diversion: 65-12985, 65-13457

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER (WELL NO.6) BOISE County	SE1/4SW1/4	Sec. 28, Twp 10N, Rge 04E, B.M.
GROUND WATER (WELL NO.3) BOISE County	L4 NW1/4NW1/4	Sec. 3, Twp 09N, Rge 04E, B.M.
GROUND WATER (WELL NO.1) BOISE County	L4 NW1/4NW1/4	Sec. 4, Twp 09N, Rge 04E, B.M.
GROUND WATER (WELL NO.4) BOISE County	NW1/4NE1/4	Sec. 33, Twp 10N, Rge 04E, B.M.
GROUND WATER (WELL NO.5) BOISE County	L3 NE1/4SE1/4	Sec. 33, Twp 10N, Rge 04E, B.M.
GROUND WATER (WELL NO.2) BOISE County	NW1/4SE1/4	Sec. 33, Twp 10N, Rge 04E, B.M.

Method of Determination: Arc Map (Aerial Photo); GPS: Well No. 1 – Latitude N.44°08.881', Longitude W.115°59.803'; Well No. 2 – Latitude N.44°09.136', Longitude W.115°59.160'; Well No.3 – Latitude N.44°08.773', Longitude W.115°58.553'; Well No.4 – Latitude N.44°09.607', Longitude W.115°59.032'; Well No.5 – Latitude N.44°09.274', W.115°58.950'; Well No.6 – Latitude N.44°09.811', Longitude W.115°59.469'; Datum – NAD83.

(Note: GPS Coordinates, except for Well No.6, were obtained outside of well or pump house, not at well)

2.

PLACE OF USE: FIRE PROTECTION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N 04E 3						X L 4	X										
09N 04E 4	X L 1	X L 2	X	X L 5	X L 3	X L 4											
10N 04E 28															X L 4	X	
10N 04E 33	X L 1	X	X	X L 2					X			X	X L 3	X	X	X L 4	
10N 04E 34					X	X	X			X							

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N 04E 3						X L 4	X										
09N 04E 4	X L 1	X L 2	X	X L 5	X L 3	X L 4											
10N 04E 28															X L 4	X	
10N 04E 33	X L 1	X	X	X L 2					X			X	X L 3	X	X	X L 4	
10N 04E 34					X	X	X			X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N 04E 3						2.0 L 4	1.0										3.0
09N 04E 4	22.0 L 1	10.0 L 2	1.0	4.0 L 5	14.0 L 3	1.0 L 4											52.0
10N 04E 28															8.0	46.0	54.0
10N 04E 33	12.0 L 1	28.0	19.0	35.0 L 2					1.0			1.0	2.0 L 3	13.0	34.0	44.0 L 4	217.0
10N 04E 34					1.0	29.0	20.0			7.0							57.0

TOTAL ACRES 383.0
ACRE LIMIT 26.0

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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>
<u>D0039476</u>	<u>Unknown</u>	<u>10</u>	<u></u>	<u>Jacuzzi</u>	<u>(4")</u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

*Code to correspond with No. on map and aerial photo

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>
<u>N/A</u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

2. Measurements: No field measurement. Well is one of six wells in a community well system. Well pump not operating during field exam.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

(Well No.6 Added Capacity to the Old System)

$$Q = 8.8 \times 0.7 \times 10/230 + (2.31 \times 40) = 61.6/322.4 = 0.20 \text{ cfs}$$

$$HP = 10$$

$$Z = 230' \text{ (Estimated from well log)}$$

$$P = 40 \text{ psi (Assumed)}$$

In addition to this well, Well No. 6, two ground water wells were proposed to be constructed in Section 34, T.10N, R.4E. However, only Well No.6, located in Section 28, T.10N., R.4E., was developed and placed into service for the Terrace Lakes Water Company.

$$(\text{Well System Capacity}) = 0.27 \text{ cfs (Wells No.1 - 5)} + 0.20 \text{ cfs (Well No.6)} = 0.47 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 26.0 \times 3.5 = 91.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.47 \times 231 \times 1.9835 = 215.3 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 91.0 \text{ AFA}$$

Note: The acres irrigated was based on the application for permit description that ¼ acre of each lot would be irrigated. Approximate total area for the North Ridge development is 103.6 acres. Since the subdivision plat has not been recorded, lot sizes are not known. Therefore, assumed an approximate irrigable area of 26.0 acres, which is 25% of the total approximate developed area of 103.6 acres.

2. Volume Calculations for Other Uses: Domestic (Internal) – 45 Units

$$V_r = 45 \times 0.6 = 27.0 \text{ AFA}$$

$$V_d = 0.47 \times 365 \times 1.9835 = 340.3 \text{ AFA}$$

Recommended Domestic Internal Volume of 27.0 AFA.

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

The Terrace Lakes Water Company owns and operates the water supply systems for the Terrace Lakes development. Although Water Rights 65-12985 and 65-13457 indicate that the Terrace Lakes development is served by twelve (12) ground water wells, only six (6) ground water wells provide water for domestic use, irrigation, and fire protection. Well No.6, which is associated with this permit, was drilled to supplement the water supply capacity of the Terrace Lakes Water Company to serve the Terrace Lakes development, and to provide water service to the proposed 45-lot North Ridge at Terrace Lakes development. Although the North Ridge at Terrace Lakes development is served by the Terrace Lakes Water Company, the development is not a part of the Terrace Lakes development. Water main lines, water service lines, and fire hydrants have been installed for the North Ridge at Terrace Lakes development. However, the subdivision platting and site improvements have not been completed.

The addition of the 45-lot North Ridge at Terrace Lakes development increases the number of dwellings currently served by the Terrace Lakes Water Company to 375. The Terrace Lakes Water Company water supply system is comprised of two water storage tanks. A 55,000 gallon concrete water storage tank, and a 35,000 gallon steel bolted water storage tank.

According to the right holder, the Terrace Lakes development is comprised of 440 residential lots. Water Rights 65-12985 and 65-13457 appropriate water for domestic use to 450 lots. Of these 440 lots, 330 dwellings have been constructed and are served by the Terrace Lakes Water Company. Prior to the addition of Well No.6, the 330 dwellings within the Terrace Lakes development were served by five (5) ground water wells for domestic use and irrigation under Water Rights 65-12985 and 65-13457. These water rights were licensed for a total domestic use appropriation of 0.27 cfs and a total annual volume of 195.7 AFA.

Although the place of use for Water Right 65-12985 is comprised of 383 acres for irrigation, a condition was placed on the water right limiting the irrigable area to 26 acres.

This permit was developed for Wells No. 1-6. Well No. 6 increased the water system capacity by 0.20 cfs and 144.8 AF. Upon placing Well No.6 into service, the water system capacity increased to 0.47 cfs and 340.5 AF. The permit added domestic internal use to 45 additional units and 26 irrigable acres. Although 45 new units are served, these units combined with the older water rights are limited to 450 domestic internal use. Since the total units served within the Terrace Lakes development is 330, the total of 375 units is in compliance with the 450 unit limit.

OVERLAP ANALYSIS:

The total number of dwellings currently served by the Terrace Lakes Water Company is 375. A total of 330 dwellings are located within the Terrace Lakes development and 45 future dwellings are located within the North Ridge at Terrace Lakes development. Based on the IDWR 'Maximum Instantaneous Water Requirements for Domestic Use' graph, the approximate maximum water appropriation for 375 dwellings is 0.80 cfs.

Place of Use (Domestic): Ground water associated with Water Right Permit No. 65-23085 and Water Rights 65-12985 and 65-13457 overlap for domestic use for the Terrace Lakes and North Ridge at Terrace Lakes developments. The total domestic use water appropriation for this permit and the two licensed water rights is 0.47 cfs, which is in compliance for 375 dwellings being served by the Terrace Lakes Water Company.

Place of Use (Irrigation): Ground water and surface water associated with Water Right Permit No. 65-23085 and Water Rights 65-12985, 65-3002F, 65-3237F, 65-10780, and 65-10782 overlap to irrigate the Terrace Lakes and North Ridge at Terrace Lakes developments.

Note: See Attachment 'A' – Water Right Permit No. 65-23085 Rate & Volume Overlap.

Have conditions of permit approval been met? ☒ Yes ☐ No

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.80	&/or	N/A
Beneficial Use Limit	0.80	&/or	N/A
System Measurement	0.47 (theoretical)	&/or	N/A
Proof Fee Amount	1.0	&/or	N/A
Recommended Amount	0.47	&/or	N/A

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FIRE PROTECTION	01/01 to 12/31	0.470 CFS	N/A
DOMESTIC	01/01 to 12/31	0.470 CFS	27.0 AFA
IRRIGATION	03/15 to 10/31	0.470 CFS	91.0 AFA
<u>Totals:</u>		0.470 CFS	118.0 AFA

2. Recommended Amendments

☐ 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 Rick Collingwood Date 4/26/13

Reviewer _____ Date _____

ATTACHMENT A --- 65-23085 RATE & VOLUME OVERLAP

OLD GROUND WATER RIGHTS 65-12985 & 65-13457

D/450 homes	0.27 CFS	195.7 AF	not maximum rate or volume
I/26 acres (actual 25.8)	0.20 CFS	90.3 AF	maximum volume 25.8 acres
TOTAL	0.27 CFS	195.7 AF	old system capacity before added Well 6

WELL 6 ADDED (Transfer & Amendment)

Well 6 production	0.20 CFS	144.8 AF	
TOTAL well system	0.47 CFS	340.5 AF	current system capacity Wells 1-6

NEW GROUND WATER RIGHT 65-23085

D/45 homes, I/26 acres, fire protection.

Adds new homes and more acres, total # homes for ground water system does not increase since actual use under old rights is D/330.

D/45 homes	0.32 CFS	27 AF	maximum rate & volume covered
I/26 acres	0.47 CFS	91 AF	maximum volume covered
Fire Protection	0.47 CFS		volume N/A
TOTAL	0.47 CFS	118 AF	

ALL GROUND WATER RIGHTS

Wells 1-6 produce enough volume for old rights & new right. System is rate limited.

Limited to 0.47 CFS total domestic, not to exceed 450 homes.

Limited to 0.47 CFS total irrigation.

Limited to 0.47 CFS total domestic, irrigation and fire protection.

New conditions needed:

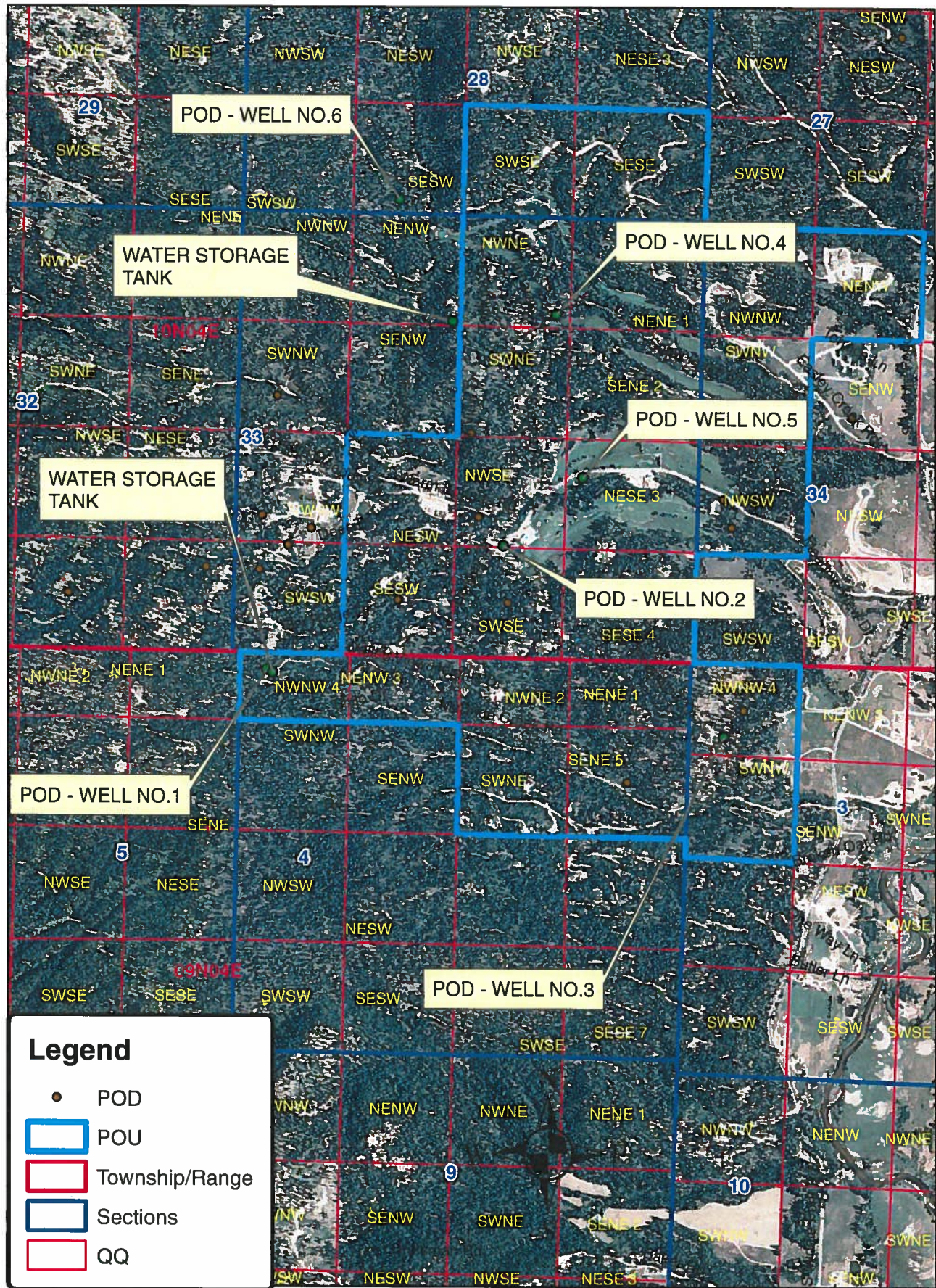
X27, limited to 26 acres in 383 acre PPU. Round acres & use “calculate total acres” button in data entry for complete irrigation details.

65-12985, 65-13457 & 65-23085 limited to 0.47 cfs irrigation use, 0.47 cfs domestic use for 450 homes, and 0.47 cfs for all uses under those rights.

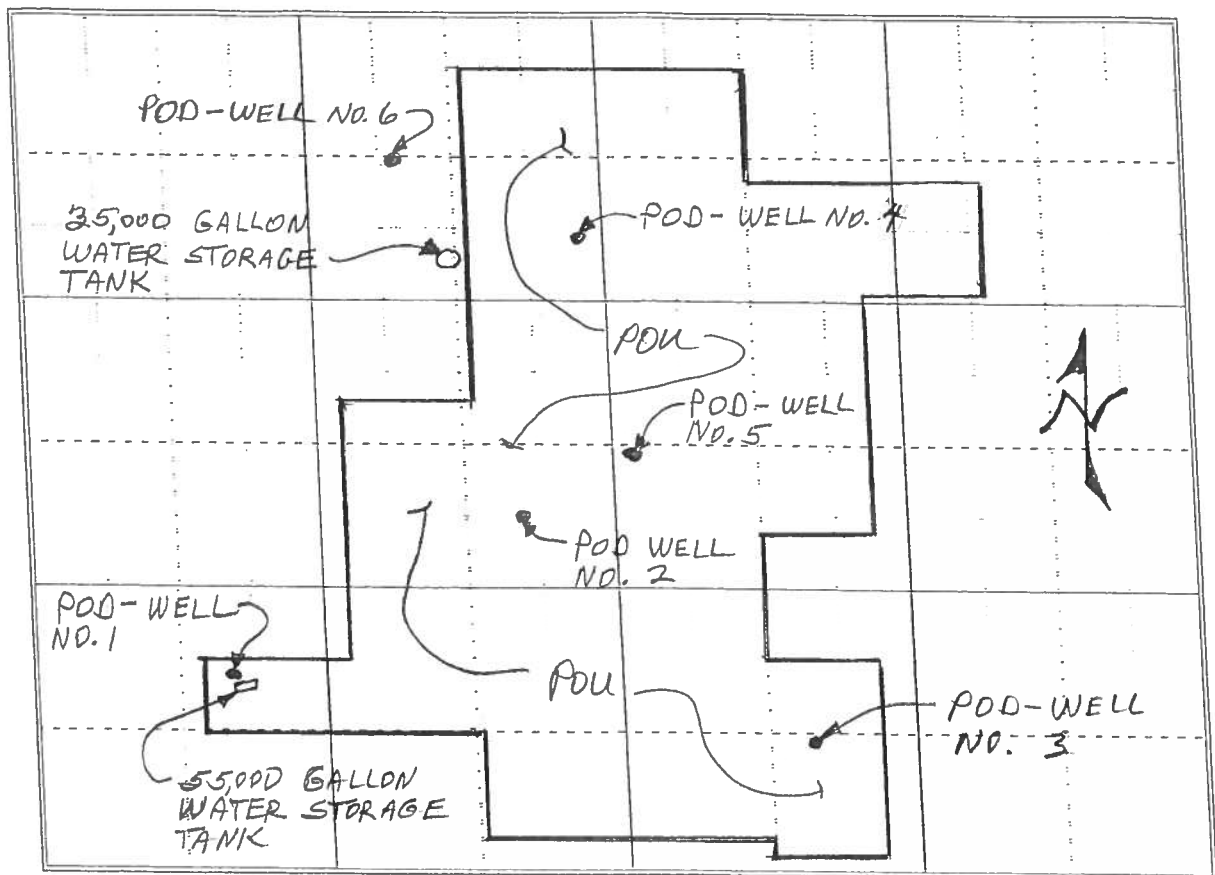
F06, Wells 1-6 for those 3 rights.

65-23085

AERIAL PHOTO - 2009



- 3 Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ 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

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0039476
DRILLING PERMIT NO. _____
Water Right or Injection Well No. 65-23085

2. OWNER:
Name Lonnie Bramon /X Roads/ Jennace Lakes Inst
Address 8 Rainbow Ridge
City Garden Valley State ID Zip 83622

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 10 North ☒ or South ☐
Rge. 4 East ☒ or West ☐
Sec. 28 NE 1/4 NW 1/4 SE SW 1/4
Gov't Lot _____
Lat: 44: 9: 806 Long: 115: 59: 476
Address of Well Site Same

(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	245	30 sacks	Poured

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER: N/A

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE N/A

Perforation Method _____
Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. FILTER PACK N/A

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
150	140	140	1 HR

Water Temp. 58 Bottom hole temp. 58

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
7-7/8	0	30	Clay		X
"	30	80	D G		X
"	80	115	Soft DG w/ hard streaks		X
"	115	135	D G		X
"	135	160	Broken Hard Granite	X	
"	160	170	Broken Granite	X	
"	170	200	Broken Granite (50 gpm)	X	
"	200	245	Broken Hard Granite (150 gpm)	X	

test hole only -- filled

This well
was completed
in 7/2006.
See D0046843

RECEIVED

SCANNED

JUL 25 2005

NOV 16 2005

WATER RESOURCES
WESTERN REGION

SEP 11 2006

Completed Depth _____ (Measurable)

Date: Started 7/18/05 Completed 7/18/05

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Rauch Drilling Inc Firm No 570

Principal Driller [Signature] Date 7/21/05

Driller or Operator II _____ Date _____

Operator I [Signature] Date 7/21/05

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0039476/0046843

DRILLING PERMIT NO. _____

Water Right or Injection Well No. 65-23085

2. OWNER:

Name Lonnie Bramon / X Roads / well #1Address 8 Rainbow RidgeCity Garden Valley State ID Zip 83622

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 10 North ☒ or South ☐Rge. 4 East ☒ or West ☐Sec. 28 SE 1/4 SW 1/4 160 acresGov't Lot _____ County BoiseLat: 44: 9: 806 Long: 115: 59: 476Address of Well Site 8 Rainbow RidgeTerrace Lakes City Garden Valley

(Give at least name of road - Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation☐ Thermal ☐ Injection ☐ Other Multi Dom / Fire Protect

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☒ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☒ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
Bentonite	0	150	103	poured

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+18"	190	280	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 180 Length of Tailpipe 10Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
190	200	030		6"	S/S	☒	☐
220	230	030		6"	S/S	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
3/8	160	240	1 1/2 yd	poured

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

160 ft. below ground Artesian pressure NA lb.Depth flow encountered 160 ft. Describe access port or control devices: _____

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
50-100	230	230	8 hour

Water Temp. cold Bottom hole temp. 59Water Quality test or comments: goodDepth first Water Encounter 160

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	30	clay		X
10	30	80	D.G.		X
10	80	115	soft D.G. w/hard streaks		X
10	115	135	D.G.		X
10	135	160	Broken hard granite		X
10	160	170	Broken granite	X	
10	170	200	Broken granite	X	
10	200	245	Broken hard granite	X	

SCANNED RECEIVED

JUL 06 2007

AUG 17 2006

WATER RESOURCES
WESTERN REGIONCompleted Depth 240 (Measurable)Date: Started 7/24/06 Completed 8/04/06

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Rauch Drilling Inc Firm No. 570Principal Driller [Signature] Date 8/11/06and Driller or Operator II [Signature] Date 8/11/06Operator I [Signature] Date _____

Principal Driller and Rig Operator Required.

Operator I must have signature of Driller/Operator II.

FIELD EXAM PHOTOS

Water Right Permit: 65-23085

Field Exam Date: 10-11-12

PLS: SE1/4, SW1/4 Section 28, T.10N, R.04E

Field Examiner: RC



Point of Diversion: View northerly of the Terrace Lakes Water Company Well No.6. The pump house/mechanical building is approximately 30' southerly of the well.



View inside of pump house/mechanical building of the 4" steel supply line from the well and the 4" steel discharge main line providing water to the 45 lot North Ridge at Terrace Lakes development. The 4" discharge line expands to 6" approximately 50 feet from the pump house/mechanical building.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

October 3, 2012

Terrace Lakes Water Company
C/O Ilene Johnson
950 N. Cole Road
Boise, ID 83704

RE: Scheduling Field Exam for Water Right Permit No. 65-23085

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of October 15, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.80 cfs from ground water for irrigation of 383 acres, fire protection, and domestic use for 83 homes and a waste water treatment plant.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by October 12, 2012, to conduct the exam during the week of October 15, 2012.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in cursive script that reads "Rick Collingwood". The signature is fluid and appears to be written in dark ink.

Rick Collingwood, P.E.
Water Resource Agent, Sr.