

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8834

Exam Date: May 9, 2012

1. Current Owner: SUN VALLEY WATER & SEWER DIST
PO BOX 2410
SUN VALLEY ID 83353-2410
(208) 622-7610
2. Accompanied by: Pat McMahon
Phone No: 622-9507 or 481-2566
Address: pat@svwsd.com
Relationship to Permit Holder: Manager

3. **SOURCE**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: specifically 37-7147 and Sun Valley Water & Sewer Dist. water right portfolio (see attached spreadsheet)
2. Other water rights with the same point of diversion: 37-7147 and 37-2722

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

GROUND WATER NE¼NE¼ Sec. 24, Twp 04N,

Rge 17E, B.M. BLAINE County

Method of Determination: GPS (existing GPS point by DEQ, I spatially confirmed location)

2. **PLACE OF USE:** The city's service boundary

Method of Determination: I showed Pat the service boundary that the department has on file and he confirmed that it is correct. Even though this right is using a closed system for the various restaurants and outbuildings at Sun Valley Resorts, this right will be licensed just like a municipal right—no volume and a large POU.

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</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>
E0006040	Jacuzzi	7.5	#5s6m2		

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

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Polysonic	Flow meter	Tyme	Flyte			March 26, 2012

2. Measurements: I took a measurement using the polysonic equipment on a length of pipe that is located nearly 165 feet from the well in the control room. In addition I will conduct a horsepower equation.

E. FLOW CALCULATIONS

___x___ Additional Computation Sheets Attached

Measured Method:

1). Physical measurement = 173 gpm or **0.39 cfs** on average over 10 minutes

2). Horsepower equation

Depth to water = from the well driller's report the water bearing zone appears to be from 23'

psi = 35--reading taken on the system

horsepower = 7.5

efficiency = 0.7 (standard)

friction losses = not significant

$$8.8 \times 7.5 \times 0.7 / 23 + (2.31 \times 35) = 46.2/104 = \mathbf{0.44 \text{ cfs}}$$
 or 197 gpm

The theoretical estimate and the physical measurement are within 14% of one another. There could be issues with efficiency. For example, if the efficiency on the system is actually 75%, the horsepower equation yields a result of 0.48 cfs. For the purpose of licensing this right the discrepancy isn't a big issue since the permit is limited to 0.10 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

2. Volume Calculations for Other Uses: NA—This right was permitted as municipal. The PD for this right serves only the Sun Valley ski area and is not connected into the municipal system of Sun Valley Water & Sewer District (the municipal server for the city of Sun Valley). Even though the PD is not connected to the municipal system I will proceed with licensing this permit as a municipal right; no volume will be assigned to this right and the city's service boundary will be the POU for this right. These were my instructions per Shelley Keen.

G. NARRATIVE/REMARKS/COMMENTS

This right will be licensed for the full permitted rate of 0.10 cfs without considering the amount of water required for beneficial purposes at the POU. Proof of beneficial use was filed in 1995 when the following policy was in place:

From App. Processing Admin. Memo #18**Installed Capacity for Municipalities**

An incorporated city or a municipal provider serving an incorporated city could perfect a water right based on the maximum instantaneous diversion rate for the pumping system that was installed and operational during the development period of the permit (limited by the permitted amount), even if the city did not beneficially use the entire capacity during the development period of the permit. Note that even though a municipal system may have included multiple wells and pumps, the Department typically licensed a water right based on the diversion capacity of an individual well and pump listed as a single point of diversion on the water right. The Department typically did not review the overall system capacity and evaluate the new well as an additional increment of diversion capacity or beneficial use under the entire system due to that point of diversion.

When licensing a municipal water right, the Department did not include an annual volume limit on the license. In addition, the place of use was described as the city limits and was allowed to change as the city limits expanded. A city's water use under a license could expand over time as demand for water increased by pumping the maximum rate over longer periods that may have included storage tanks to provide for higher peak demands.

The permit holder has a measuring device installed at the point where I obtained my physical measurement. Their measuring device was not accurate. At the time of my measurement, his equipment was reading a diversion rate of ~78 gpm while I was measuring 160 gpm.

The point where I obtained my measurement was roughly 165' from the well. The water is then piped to a different room where there are two booster pumps running at 1600 psi that carry the water vertically 3200' to the restaurants at the top of the mountain. This is an "on-demand" system.

Water right 37-7147 and 37-2722 are also diverted from the PD of this right. It's obvious while reviewing the backfile of 37-7147 that they have always shared a PD. However, it appears that the original PD for 37-2722 was diverted from a different well. I have confirmed that 37-2722 was originally diverted to a shed on site for domestic purposes under a separate well because the priority date of the right pre-dates 1972 (the date the well for 37-7147 was drilled). I believe that the well that was originally used under 37-2722 has since been abandoned and is now diverted under the same PD as 37-7147 and 37-8834.

Have conditions of permit approval been met? ☒ 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	1/01 to 12/31	0.100 CFS	NA
<u>Totals:</u>		0.100 CFS	NA

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

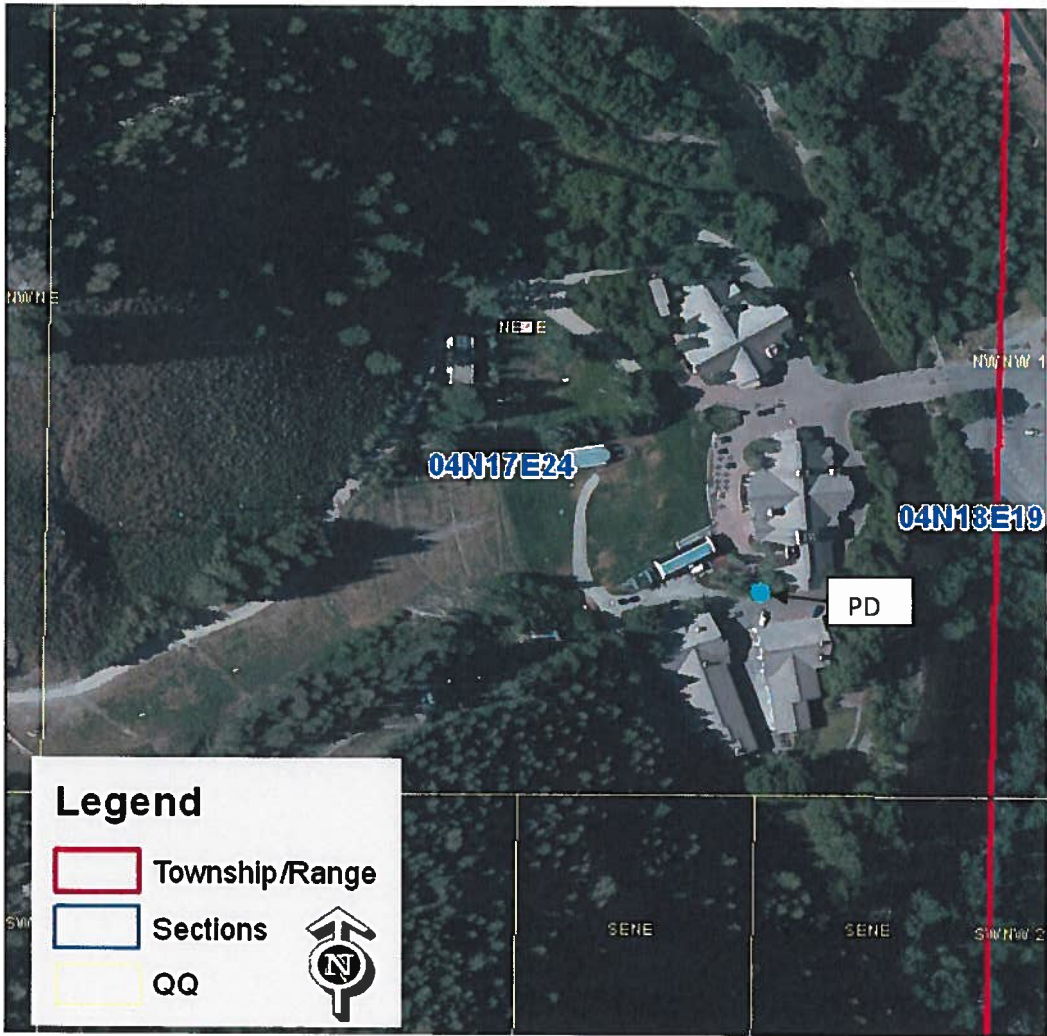
Field Examiner's Name Chris Dalmer Date 7/26/2012

Reviewer _____ Date _____

Attachment #1 - polysonic tape
 Attachment #2 - Sun Valley Land use map
 Attachment #3 - water use records '88-2010
 Attachment #4 - well Driller's Report (2)
 Attachment #5 - System Diagram
 Attachment #6 - Water Right Portfolio

Delivery System—please see that attached engineering plans.

Map/Aerial Imagery



Photos



Well

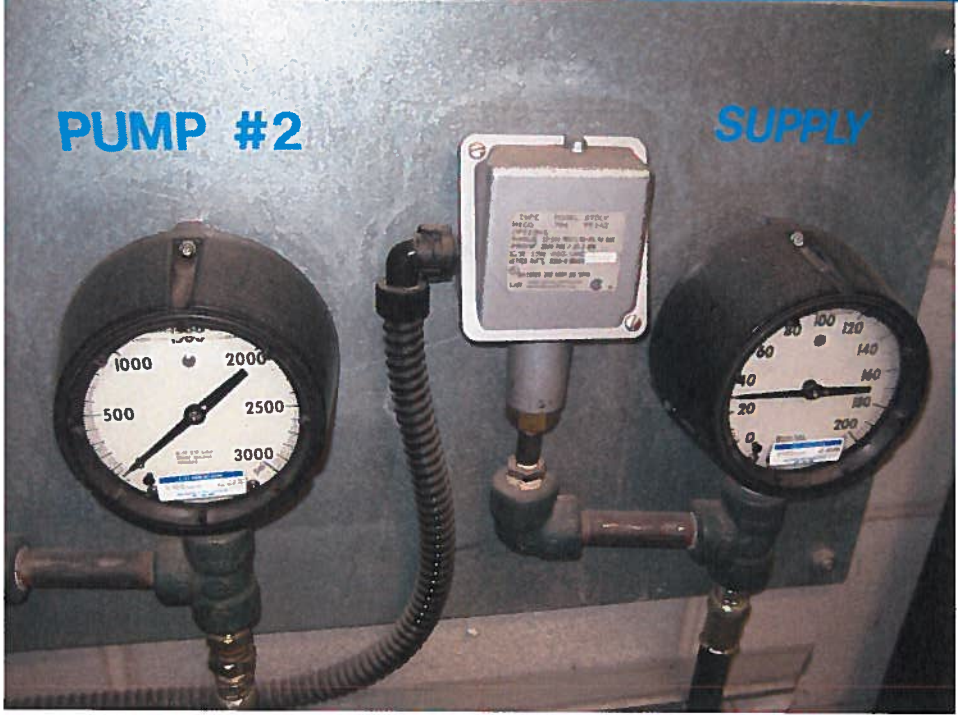




IN
FROM
Well



Measurement point





measuring device
(incorrect reading)

SPACING
4.841 IN U

07-24 10:3600 *H
+002.30 % AI2

SPACING
4.819 IN U

07-24 10:4200 *H
+000.40 % AI2

07-24 10:4300 *H
+002.30 % AI2

Sun Valley
6.7 diameter
0.283 thickness
spacing 4.956

07-24 10:4300 *H
+002.60 % AI2

0239.4 mmsec
104.42 % T0

13:25+150.503E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

13:26+154.276E 06PM 00R
+00015 *10 G 00R
-00000 *10 G 00R

13:27+163.522E 06PM 00R
+00030 *10 G 00R
-00000 *10 G 00R

13:28+161.146E 06PM 00R
+00046 *10 G 00R
-00000 *10 G 00R

13:29+176.995E 06PM 00R
+00062 *10 G 00R
-00000 *10 G 00R

13:30+162.994E 06PM 00R
+00080 *10 G 00R
-00000 *10 G 00R

13:31+159.324E 06PM 00R
+00095 *10 G 00R
-00000 *10 G 00R

13:32+151.848E 06PM 00R
+00111 *10 G 00R
-00000 *10 G 00R

13:33+161.907E 06PM 00R
+00126 *10 G 00R
-00000 *10 G 00R

13:34+154.012E 06PM 00R
+00142 *10 G 00R
-00000 *10 G 00R

13:35+157.182E 06PM 00R
+00158 *10 G 00R
-00000 *10 G 00R

13:36+163.352E 06PM 00R
+00173 *10 G 00R
-00000 *10 G 00R

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4.841 IN U

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+002.30 % AI2

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13:36+163.352E 06PM 00R
+00173 *10 G 00R
-00000 *10 G 00R

Attachment #1
37-8834

173 GPM
AK6

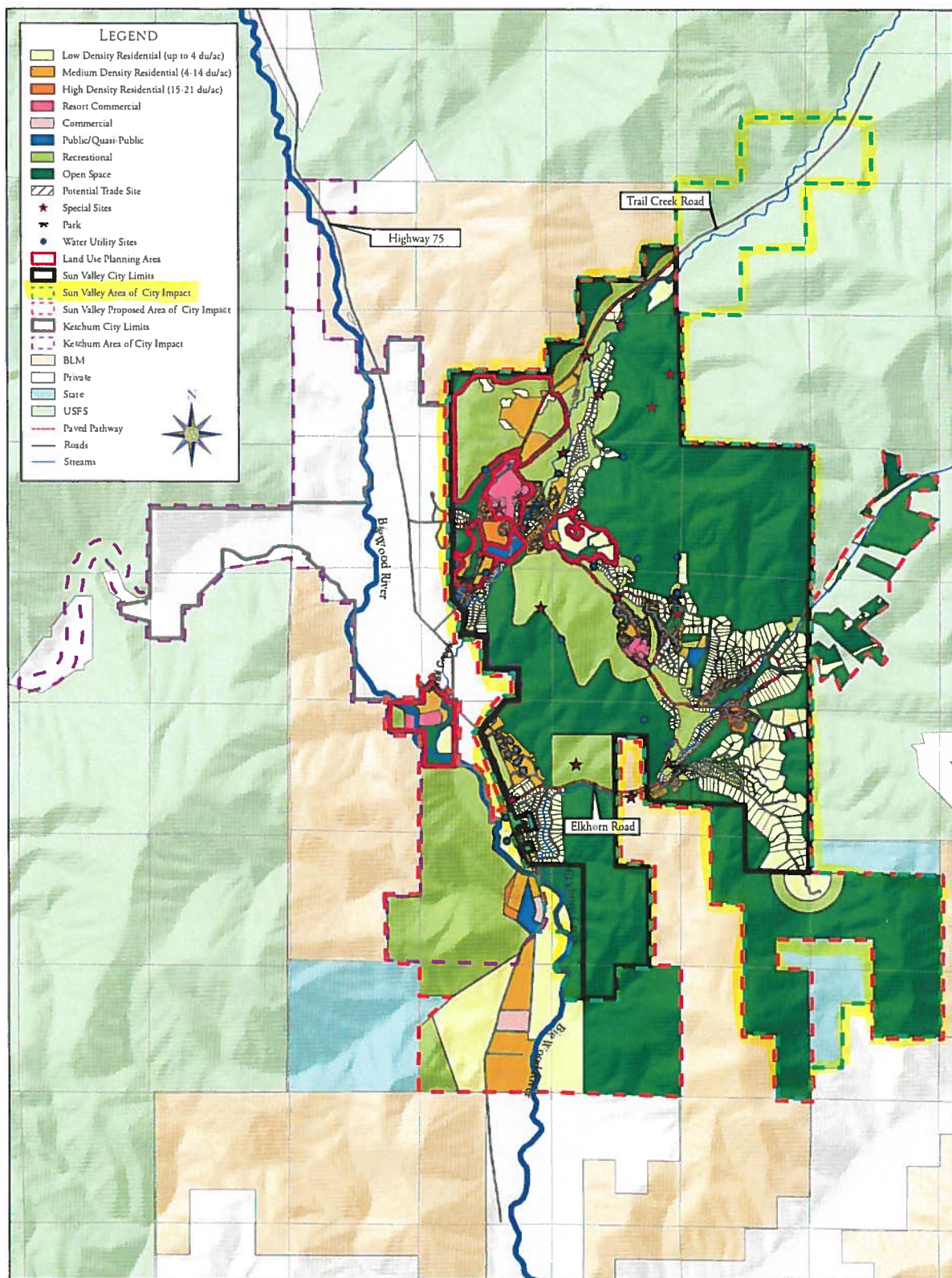


FIGURE 1. Future Land Use Map, 2005

Attachment #2
37-8834

Bald Mountain Water Supply
River Run Water Usage

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	
j		65,665	497,000	472,700	1,277,800	1,007,850	294,300			491,000	927,400	
f		131,330	853,575	1,138,800	1,243,200	1,007,850	42,750	3,656,500	825,600	607,900	101,970	
m		1,146,000	853,575	1,167,900	1,746,200	1,007,850	528,700	981,600	1,211,600	655,400	767,900	
a		1,413,500	853,575	802,900	2,067,300	1,007,850	582,300	689,300	629,000	1,239,900	680,200	
m		590,300	853,575	59,710	757,000		373,600	631,300	338,600		442,300	
j		51,800	20,600	317,900	453,800		207,200	257,100	154,600	165,300	303,200	
j	331,500	0	67,200	71,800	40,200			181,200	222,200	402,900	372,100	
a	29,780	467,400	321,000	137,900	95,400			295,200	562,600	668,900	674,800	
s	441,800	60,800	227,300	1,364,000	301,400			218,000	348,100	593,100	620,700	
o	19,700	108,500	216,000	232,300	312,400			279,400	213,500	644,600	422,500	
n	193,200	148,900	177,200	211,500	739,500			396,500		306,100	289,700	
d	65,665	131,300	62,500	549,500	1,033,700	16,000		792,800	373,600	731,800	392,800	
	1,081,645	4,315,495	5,003,100	6,526,910	10,067,900	4,047,400	2,028,850	8,378,900	4,879,400	6,506,900	5,995,570	58,832,070
	numbers averaged over multiple months											
	meter gone											
	well not used due to construction											
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
j	823,500	571,700	827,200	682,000	311,700	407,400	402,900	585,900	581,300	741,200	602,600	1,202,500
f	573,700	635,500	760,300	661,300	571,100	555,600	378,600	523,600	514,400	613,900	479,300	871,200
m	620,300	701,200	1,122,800	534,600	477,500	282,200	371,800	533,600	540,600	592,700	442,000	923,300
a	643,700	650,100	1,035,200	528,200	962,500	559,800	491,100	577,700	590,800	481,600	293,600	734,700
m	371,200	323,400	638,800	421,300	243,500	202,700	243,600	421,600	278,700	376,600	269,200	1,120,200
j	215,200	213,800	551,900	346,600	123,500	178,400	25,200	175,000	224,200	589,500	353,600	337,900
j	331,600	718,400	455,500	501,000	349,600	240,100	122,800	278,900	417,300	605,500	591,700	527,900
a	541,800	707,000	594,700	754,000	458,300	261,100	333,700	445,900	528,900	625,400	506,400	734,700
s	443,700	710,200	666,700	528,800	486,100	244,800	302,600	522,700	1,046,000	401,000	508,000	89,600
o	395,200	606,700	273,500	249,700	185,400	256,800	217,500	276,200	715,100	284,800	305,600	301,300
n	308,100	240,700	307,200	132,200	70,900	64,900	92,000	73,000	318,500	227,200	489,800	312,200
d	214,500	494,000	334,200	48,600	80,200	73,200	122,400	248,800	402,800	503,800	720,400	721,600
	5,482,500	6,572,700	7,568,000	5,388,300	4,320,300	3,327,000	3,104,200	4,662,900	6,158,600	6,043,200	5,562,200	7,877,100
												66,067,000
											grand total	124,899,070
			low year	3,104,200		high year	10,067,900				year avg.	5,430,394
			2005	258683		1992	838992				month avg.	452,533
				8623			27966				day avg.	15,084
				5.99	.013 cfs		19.42	.043 cfs			g.p.m.	10.48 .022 cfs

Attachment #3
37-8834

Use Typewriter
or
Ball Point Pen

053550

1. DRILLING PERMIT NO. 37 - 94 - S. 0189 - 200
Other IDWR No. 37-07147 - 000

2. OWNER:

Name Sun Valley City
Address P. O. Box 416
City Sun Valley State ID Zip 83353

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 Twp. 4 North ☒ or South ☐
 Rge. 17 East ☒ or West ☐
 Sec. 24 1/4 NE 1/4 NE 1/4
 Gov't Lot _____ County Blaine

Address of Well Site _____
City Ketchum

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

Lt.	Blk.	Sub. Name
-----	------	-----------

4. PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Culinary for Ski

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☒ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Cement grout	0	20	40 sk	Overbore

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 23'

Was drive shoe seal tested? Y ☐ N ☐ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8.62	+1 1/2	23	322	Steel	☒	☐	☒	☒
					☐	☐	☐	☐

Length of Headpipe 22 Length of Tailpipe 39½

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type SS telescoping

From	To	Slot Size	Number	Diameter	Material	Casing	liner
-23	-33	.080		7 1/2 od	7 1/2 od	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
439	6' 9"	16' 3"	6 hr.

Water Temp. 46° F. Bottom hole temp.

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

13. DRILLER'S CERTIFICATION

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

the time the rig was removed.

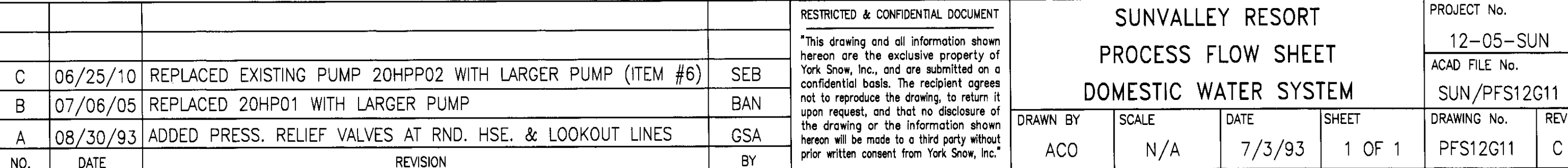
WALKER WATER SYSTEMS

Firm Name 624 PIERCE ST. TWIN FALLS, ID 83301 Firm No. 15

Firm Official _____ Date 12/27/94
and
Supervisor or Operator [Signature] Date _____
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Attachment #4 (2)
37-8834

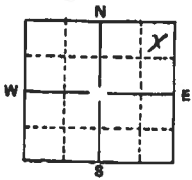


WELL DRILLER'S REPORT

RECEIVED

State law requires that this report be filed with the Director, Department of Water Administration within 20
days after the completion or abandonment of the well.

DEC 1 1972

1. WELL OWNER Name <u>Sun Valley Co., Inc.</u> Address <u>Sun Valley, Idaho</u> Owner's Permit No. <u>37-7147</u>		7. WATER LEVEL Department of Water Administration Southern District Office Static water level <u>5</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																	
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☒ Pump ☐ Baller ☐ Other Discharge G.P.M. <u>195</u> Draw Down <u>5"</u> Hours Pumped <u>1/2 Hour</u>																																																																	
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☒ Commercial ☐ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG 033802																																																																	
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other		<table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td></td><td>0</td><td>5'</td><td>Top Soil, Gravel + Clay</td><td></td><td>X</td></tr><tr><td></td><td>5'</td><td>6'</td><td>Gravel, Sand + Boulders</td><td></td><td>X</td></tr><tr><td></td><td>6'</td><td>14'</td><td>" " "</td><td>X</td><td></td></tr><tr><td></td><td>14'</td><td>19'</td><td>" " "</td><td>X</td><td></td></tr><tr><td></td><td>19'</td><td>20'</td><td>Sand</td><td>X</td><td></td></tr><tr><td></td><td>20'</td><td>24'</td><td>Gravel, Sand + Boulders</td><td>X</td><td></td></tr><tr><td></td><td>24'</td><td>30'</td><td>" " "</td><td>X</td><td></td></tr><tr><td></td><td>30'</td><td>32'</td><td>Black Lime Rock</td><td>X</td><td></td></tr><tr><td></td><td>32'</td><td></td><td>Bottom of Hole</td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No		0	5'	Top Soil, Gravel + Clay		X		5'	6'	Gravel, Sand + Boulders		X		6'	14'	" " "	X			14'	19'	" " "	X			19'	20'	Sand	X			20'	24'	Gravel, Sand + Boulders	X			24'	30'	" " "	X			30'	32'	Black Lime Rock	X			32'		Bottom of Hole		
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	32'		Bottom of Hole																																																																
5. WELL CONSTRUCTION Diameter of hole <u>8</u> inches Total depth <u>32</u> feet Casing schedule: ☐ Steel ☐ Concrete Thickness <u>285</u> inches Diameter <u>8</u> inches From <u>4</u> feet To <u>20</u> feet Inches inches feet feet Inches inches feet feet Inches inches feet feet Inches inches feet feet Inches inches feet feet Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Screen with <u>Fig K 8" Packer</u> Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Johnson Well Screen</u> Type <u>304 Stainless Steel</u> Model No. <u>GPS</u> Diameter <u>6</u> Slot size <u>20</u> Set from <u>20'</u> feet to <u>30'</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No Size of gravel <u>Natural Gravel Pack</u> Placed from <u>20'</u> feet to <u>36'</u> feet Surface seal? ☒ Yes ☐ No To what depth <u>20'</u> feet Material used in seal ☒ Cement grout ☐ Puddling clay <u>50 SACKS</u>																																																																			
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>BLAINE</u> <u>37</u> NE 1/4 NE 1/4 Sec. <u>24</u> , T. <u>4</u> N., R. <u>17</u> E.		10. Work started <u>10-2-72</u> finished <u>10-26-72</u>																																																																	
		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>Smith Drilling & Pump Co., Inc.</u> 11. Driller's or Firm's Name Number <u>328 West Ave. "A", Jerome, IDAHO</u> Address <u>Samuel Smith</u> 11-30-72 Signed By Date																																																																	

Sun Valley Water & Sewer Water Right Portfolio

Basin	Sequence	Wells	Process	Basis	Status	Draft	RightID	Priority Date	Diversion	Source List	Water Use List	Current Owner	Volume
37	2722	4A, 5 & 6	Water Right	Decreed	Active	N	620342	1/3/1966	3.63	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	2,628.0
37	7102		Water Right	Decreed	Active	N	607016	5/25/1971	9.00	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	
37	7147	9	Water Right	Decreed	Active	N	620331	5/23/1972	0.15	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	108.0
37	22444	1	Water Right	Decreed	Active	N	627901	8/21/1936	0.31	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	
37	22445	2	Water Right	Decreed	Active	N	627904	9/25/1936	0.52	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	
37	22447	3	Water Right	Decreed	Active	N	627906	7/26/1948	0.95	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	
37	21151	12	Water Right	License	Active	N	572467	9/10/2003	2.06	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	
37	8834	9	Water Permit		Active	N	56884	9/6/1994	0.10	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	
									16.72				
37	8835		Water Permit		Active	N	23624	9/6/1994	1.33	GROUND WATER	MUNICIPAL	SUN VALLEY WATER & SEWER DIST	