

Saxton, Craig

From: Charles G. Brockway [charles.g.brockway@brockwayeng.com]
Sent: Tuesday, January 31, 2012 10:06 AM
To: Saxton, Craig
Cc: 'Jim Speck'
Subject: RE: 37-8752 diversion volume
Attachments: 2004-2011 power records.pdf; 2004-2011 power records.xlsx

Craig,

I'm not sure what happened there. In translating from the PDF from Idaho Power to Excel, it switched to "European style" on some of the dates. Attached is a corrected spreadsheet with the dates I changed shown in red. Also attached is the original PDF from Idaho Power. Analysis wasn't affected, just the date format.

Thanks,
Chuck

Charles G. Brockway, Ph.D., P.E.
Brockway Engineering, PLLC
2016 Washington St. North, Suite 4
Twin Falls, ID 83301
(208) 736-8543
charles.g.brockway@brockwayeng.com

All information, calculations, maps, drawings, or other documents transmitted via e-mail are preliminary unless explicitly stated in the e-mail text or in the documents themselves.

From: Saxton, Craig [<mailto:Craig.Saxton@idwr.idaho.gov>]
Sent: Tuesday, January 31, 2012 9:34 AM
To: Charles G. Brockway
Cc: Jim Speck
Subject: RE: 37-8752 diversion volume

Hello Chuck,

Thanks for sending the information. I did have a question on the dates of the monthly readings. It looks like maybe there are some typos or format inconsistencies with the dates and I just wanted to confirm with you. If you look at the entries for 2011, it appears that sometimes the date format is (Month/Day/Year) and sometimes it is (Day/Month/Year). For example if you look at the first three rows in the list (below), on the surface it appears that you have two readings for December and one for October. But for the list to make sense, I am guessing that the first entry is in the format of (Month/Day/Year) and the second and third row is in the format of (Day/Month/Year):

12/13/2011 (Dec 13, 2011)
10/11/2011 (Nov 10, 2011)
12/10/2011 (Oct 12, 2011)

Can you confirm if this is correct or incorrect?

Monthly Readings

Read Date	SA Type	Days	Read Code	\$Amount	KWH	Demand
12/13/2011	EC-LG	33	R	60.37	537	3.00 KW
10/11/2011	EC-LG	29	R	41.07	308	2.00 KW
12/10/2011	EC-LG	30	R	164.18	1769	12.00 KW
12/9/2011	EC-LG	32	R	228.78	2834	12.00 KW
11/8/2011	EC-LG	29	R	220.98	2419	12.00 KW
7/13/2011	EC-LG	30	R	212.83	2218	12.00 KW
6/13/2011	EC-LG	32	R	27.59	141	10.00 KW
12/5/2011	EC-LG	29		31.95	198	3.00 KW
4/13/2011	EC-LG	30		32.55	205	2.00 KW
3/14/2011	EC-LG	32		33.75	219	2.00 KW
10/2/2011	EC-LG	28	L	70.86	650	2.00 KW
1/13/2011	EC-LG	30	L	70.86	650	2.00 KW
12/14/2010	EC-LG	32	L	70.86	650	2.00 KW
12/11/2010	EC-LG	30		53.13	444	12.00 KW
10/13/2010	EC-LG	30	R	199.04	2308	13.00 KW
9/13/2010	EC-LG	32	R	246.88	3160	13.00 KW
12/8/2010	EC-LG	29	R	245.19	2884	11.00 KW
7/14/2010	EC-LG	30	R	241.19	2791	12.00 KW
6/14/2010	EC-LG	32		28.44	160	12.00 KW

Lastly, were you able to get any records of expenditure on landscaping?

Thanks,
Craig

From: Charles G. Brockway [<mailto:charles.g.brockway@brockwayeng.com>]
Sent: Wednesday, January 25, 2012 11:29 AM
To: Saxton, Craig; Keen, Shelley
Cc: Jim Speck; 'Connie Kemmerer'
Subject: 37-8752 diversion volume

Craig and Shelley,

Attached is an analysis of power records and calculation of diversion volume relative to crop water requirements in support of the licensing of 37-8752. This information is being provided pursuant to our telephone discussion a few weeks ago.

Please review this information and determine whether it will be sufficient to allow licensing of this water right. If not, please let Jim Speck and me know as soon as possible.

Thanks,
Chuck

Charles G. Brockway, Ph.D., P.E.
 Brockway Engineering, PLLC
 2016 Washington St. North, Suite 4
 Twin Falls, ID 83301
 (208) 736-8543

charles.g.brockway@brockwayeng.com

All information, calculations, maps, drawings, or other documents transmitted via e-mail are preliminary unless explicitly stated in the e-mail text or in the documents themselves.

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.1901 / Virus Database: 2109/4778 - Release Date: 01/31/12

Premise Billing History

12/27/2011

To: Connie Kemmerer

Email: c.kem@me.com

jim@speckandaanestad.com

Re: 0 Gray Fox Ln/Ketchum,Id 83340

Read Date	SA Type	Days	Read Code	\$Amount	Usage	Demand	Customer
12/13/2011	EC-LG	33	R	\$60.37	537.00 KWH	3.00 KW	Flowers Bench Sub
11/10/2011	EC-LG	29	R	\$41.07	308.00 KWH	2.00 KW	Flowers Bench Sub
10/12/2011	EC-LG	30	R	\$164.18	1769.00 KWH	12.00 KW	Flowers Bench Sub
9/12/2011	EC-LG	32	R	\$228.78	2834.00 KWH	12.00 KW	Flowers Bench Sub
8/11/2011	EC-LG	29	R	\$220.98	2419.00 KWH	12.00 KW	Flowers Bench Sub
7/13/2011	EC-LG	30	R	\$212.83	2218.00 KWH	12.00 KW	Flowers Bench Sub
6/13/2011	EC-LG	32	R	\$27.59	141.00 KWH	10.00 KW	Flowers Bench Sub
5/12/2011	EC-LG	29		\$31.95	198.00 KWH	3.00 KW	Flowers Bench Sub
4/13/2011	EC-LG	30		\$32.55	205.00 KWH	2.00 KW	Flowers Bench Sub
3/14/2011	EC-LG	32		\$33.75	219.00 KWH	2.00 KW	Flowers Bench Sub
2/10/2011	EC-LG	28	L	\$70.86	650.00 KWH	2.00 KW	Flowers Bench Sub
1/13/2011	EC-LG	30	L	\$70.86	650.00 KWH	2.00 KW	Flowers Bench Sub
12/14/2010	EC-LG	32	L	\$70.86	650.00 KWH	2.00 KW	Flowers Bench Sub
11/12/2010	EC-LG	30		\$53.13	444.00 KWH	12.00 KW	Flowers Bench Sub
10/13/2010	EC-LG	30	R	\$199.04	2308.00 KWH	13.00 KW	Flowers Bench Sub
9/13/2010	EC-LG	32	R	\$246.88	3160.00 KWH	13.00 KW	Flowers Bench Sub
8/12/2010	EC-LG	29	R	\$245.19	2884.00 KWH	11.00 KW	Flowers Bench Sub
7/14/2010	EC-LG	30	R	\$241.19	2791.00 KWH	12.00 KW	Flowers Bench Sub
6/14/2010	EC-LG	32		\$28.44	160.00 KWH	12.00 KW	Flowers Bench Sub
5/13/2010	EC-LG	29		\$38.23	289.00 KWH	2.00 KW	Flowers Bench Sub
4/14/2010	EC-LG	30	R	\$34.13	242.00 KWH	4.00 KW	Flowers Bench Sub
3/15/2010	EC-LG	32		\$69.62	650.00 KWH	2.00 KW	Flowers Bench Sub
2/11/2010	EC-LG	28	L	\$69.62	650.00 KWH	2.00 KW	Flowers Bench Sub
1/14/2010	EC-LG	30	L	\$69.62	650.00 KWH	2.00 KW	Flowers Bench Sub
12/15/2009	EC-LG	32		\$65.63	604.00 KWH	2.00 KW	Flowers Bench Sub
11/13/2009	EC-LG	30		\$24.92	136.00 KWH	5.00 KW	Flowers Bench Sub
10/14/2009	EC-LG	30	R	\$183.84	1963.00 KWH	12.00 KW	Flowers Bench Sub
9/14/2009	EC-LG	32	R	\$206.87	2209.00 KWH	12.00 KW	Flowers Bench Sub
8/13/2009	EC-LG	29		\$256.22	3050.00 KWH	12.00 KW	Flowers Bench Sub
7/15/2009	EC-LG	30	E	\$246.39	2850.00 KWH	13.00 KW	Flowers Bench Sub

6/15/2009	EC-LG	32		\$215.84	2706.00 KWH	12.00 KW	Flowers Bench Sub
5/14/2009	EC-LG	29		\$41.83	373.00 KWH	10.00 KW	Flowers Bench Sub
4/15/2009	EC-LG	30		\$42.67	384.00 KWH	2.00 KW	Flowers Bench Sub
3/16/2009	EC-LG	32		\$44.51	410.00 KWH	2.00 KW	Flowers Bench Sub
2/12/2009	EC-LG	29		\$40.92	371.00 KWH	2.00 KW	Flowers Bench Sub
1/14/2009	EC-LG	30		\$41.48	384.00 KWH	2.00 KW	Flowers Bench Sub
12/15/2008	EC-LG	32		\$43.41	410.00 KWH	3.00 KW	Flowers Bench Sub
11/13/2008	EC-LG	30	R	\$39.69	360.00 KWH	3.00 KW	Flowers Bench Sub
10/14/2008	EC-LG	32	R	\$179.98	2490.00 KWH	12.00 KW	Flowers Bench Sub
9/12/2008	EC-LG	30	R	\$225.57	3395.00 KWH	12.00 KW	Flowers Bench Sub
8/13/2008	EC-LG	29	R	\$223.65	3137.00 KWH	12.00 KW	Flowers Bench Sub
7/15/2008	EC-LG	32	R	\$212.19	2850.00 KWH	12.00 KW	Flowers Bench Sub
6/13/2008	EC-LG	30		\$50.43	508.00 KWH	11.00 KW	Flowers Bench Sub
5/14/2008	EC-LG	29	V	\$61.72	725.00 KWH	4.00 KW	Flowers Bench Sub
4/15/2008	EC-LG	32	V	\$56.64	650.00 KWH	2.00 KW	Flowers Bench Sub
3/14/2008	EC-LG	30		\$55.16	650.00 KWH	3.00 KW	Flowers Bench Sub
2/13/2008	EC-LG	29		\$53.86	650.00 KWH	2.00 KW	Flowers Bench Sub
1/15/2008	EC-LG	32	E	\$53.86	650.00 KWH	2.00 KW	Flowers Bench Sub
12/14/2007	EC-LG	30		\$53.86	650.00 KWH	2.00 KW	Flowers Bench Sub
11/14/2007	EC-LG	30	V	\$34.50	348.00 KWH	3.00 KW	Flowers Bench Sub
10/15/2007	EC-LG	32		\$110.23	1529.00 KWH	13.00 KW	Flowers Bench Sub
9/13/2007	EC-LG	30	R	\$199.45	3648.00 KWH	15.00 KW	Flowers Bench Sub
8/14/2007	EC-SG	29	R	\$234.88	3035.00 KWH	13.00 KW	Flowers Bench Sub
7/16/2007	EC-SG	32	R	\$218.05	2816.00 KWH	13.00 KW	Flowers Bench Sub
6/14/2007	EC-SG	30	S	\$241.54	3450.00 KWH	6.00 KW	Flowers Bench Sub
5/15/2007	EC-SG	29	R	\$13.74	155.00 KWH	2.00 KW	Flowers Bench Sub
4/16/2007	EC-SG	32		\$69.74	1052.00 KWH	6.00 KW	Flowers Bench Sub
3/15/2007	EC-SG	30		\$13.74	155.00 KWH	2.00 KW	Flowers Bench Sub
2/13/2007	EC-SG	28		\$13.12	145.00 KWH	2.00 KW	Flowers Bench Sub
1/16/2007	EC-SG	33	L	\$44.64	650.00 KWH	2.00 KW	Flowers Bench Sub
12/14/2006	EC-SG	30		\$44.64	650.00 KWH	0.00 KW	Flowers Bench Sub
11/14/2006	EC-SG	32	E	\$44.64	650.00 KWH	2.00 KW	Flowers Bench Sub
10/13/2006	EC-SG	30	R	\$125.55	1946.00 KWH	12.00 KW	Flowers Bench Sub
9/13/2006	EC-SG	30	E	\$110.09	1600.00 KWH	12.00 KW	Flowers Bench Sub
8/14/2006	EC-SG	31	R	\$124.21	1733.00 KWH	12.00 KW	Flowers Bench Sub
7/14/2006	EC-SG	30	R	\$117.49	1638.00 KWH	12.00 KW	Flowers Bench Sub
6/14/2006	EC-SG	30	R	\$110.23	1504.00 KWH	13.00 KW	Flowers Bench Sub
5/15/2006	EC-SG	31	R	\$56.04	728.00 KWH	5.00 KW	Flowers Bench Sub
4/14/2006	EC-SG	30		\$39.54	500.00 KWH	2.00 KW	Flowers Bench Sub
3/15/2006	EC-SG	30	E	\$39.54	500.00 KWH	2.00 KW	Flowers Bench Sub
2/13/2006	EC-SG	31	E	\$39.54	500.00 KWH	2.00 KW	Flowers Bench Sub
1/13/2006	EC-SG	31	E	\$39.54	500.00 KWH	2.00 KW	Flowers Bench Sub
12/13/2005	EC-SG	32	R	\$47.71	613.00 KWH	2.00 KW	Flowers Bench Sub
11/11/2005	EC-SG	29	R	\$21.44	250.00 KWH	2.00 KW	Flowers Bench Sub
10/13/2005	EC-SG	30	R	\$140.78	1899.00 KWH	14.00 KW	Flowers Bench Sub
9/13/2005	EC-SG	32	R	\$139.83	1786.00 KWH	14.00 KW	Flowers Bench Sub

8/12/2005	EC-SG	29	R	\$110.93	1366.00 KWH	14.00 KW	Flowers Bench Sub
7/14/2005	EC-SG	30	E	\$202.28	2500.00 KWH	13.00 KW	Flowers Bench Sub
6/14/2005	EC-SG	32	R	\$99.87	1336.00 KWH	13.00 KW	Flowers Bench Sub
5/13/2005	EC-SG	29	R	\$21.05	264.00 KWH	14.00 KW	Flowers Bench Sub
4/14/2005	EC-SG	17		\$39.25	539.00 KWH	2.00 KW	Flowers Bench Sub
3/28/2005	EC-SG	27	S	\$40.29	550.00 KWH	1.00 KW	Flowers Bench Sub
3/1/2005	EC-SG	32		\$43.66	600.00 KWH	1.00 KW	Flowers Bench Sub
1/28/2005	EC-SG	30		\$26.84	350.00 KWH	1.00 KW	Flowers Bench Sub
12/29/2004	EC-SG	30	E	\$30.20	400.00 KWH	2.00 KW	Flowers Bench Sub
11/29/2004	EC-SG	32	R	\$34.91	470.00 KWH	2.00 KW	Flowers Bench Sub
10/28/2004	EC-SG	30	R	\$81.39	1161.00 KWH	12.00 KW	Flowers Bench Sub
9/28/2004	EC-SG	32		\$223.29	3229.00 KWH	13.00 KW	Flowers Bench Sub
8/27/2004	EC-SG	29		\$193.03	2561.00 KWH	13.00 KW	Flowers Bench Sub
7/29/2004	EC-SG	30		\$187.57	2500.00 KWH	13.00 KW	Flowers Bench Sub
6/29/2004	EC-SG	32		\$174.59	2343.00 KWH	12.00 KW	Flowers Bench Sub
5/28/2004	EC-SG	29		\$106.41	1518.00 KWH	12.00 KW	Flowers Bench Sub
4/29/2004	EC-SG	29	R	\$18.18	229.00 KWH	1.00 KW	Flowers Bench Sub
3/31/2004	EC-SG	30	R	\$28.31	377.00 KWH	1.00 KW	Flowers Bench Sub
3/1/2004	EC-SG	32	R	\$41.79	574.00 KWH	2.00 KW	Flowers Bench Sub

If you have any questions, please call our business office at 1-800-488-6151.

Thank you.

Idaho Power Co

Customer Service Center

Flowers Bench Subdivision**Power Record Analysis - Irrigation Well**

CGB 1/12/12

Derived PCC = 311.6 KWH/ac-ft Pasture Pdef 1.48 afa
 Acres (water right) 14.5 acres
 Acres (actual irrigation) 15.5 acres

Yearly Summary

Year	KWH total irrig season	No. months	KWH avg base mnthly	Net irrig KWH	Ac-ft	Ac-ft/ac on 14.5 ac	Implied efficiency
2004	13312	6	410	10852	34.8	2.40	0.62
2005	8887	5	452	6626	21.3	1.47	insuf
2006	8421	5	575	5544	17.8	1.23	insuf
2007	14478	5	451	12224	39.2	2.71	0.55
2008	11872	4	575	9571	30.7	2.12	0.70
2009	12778	5	380	10877	34.9	2.41	0.61
2010	11143	4	467	9276	29.8	2.05	0.72
2011	9240	4	364	7786	25.0	1.72	insuf

	Ac-ft	Ac-ft/acre (14.5 ac)	Ac-ft/acre (15.5 ac)
Mean	29.2	2.01	1.88
Max	39.2	2.71	2.53
Min	17.8	1.23	1.15

Monthly Readings

Read Date	SA Type	Days	Read Code	\$Amount	KWH	Demand
12/13/2011	EC-LG	33	R	60.37	537	3.00 KW
11/10/2011	EC-LG	29	R	41.07	308	2.00 KW
10/12/2011	EC-LG	30	R	164.18	1769	12.00 KW
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8/11/2011	EC-LG	29	R	220.98	2419	12.00 KW
7/13/2011	EC-LG	30	R	212.83	2218	12.00 KW
6/13/2011	EC-LG	32	R	27.59	141	10.00 KW
5/12/2011	EC-LG	29		31.95	198	3.00 KW
4/13/2011	EC-LG	30		32.55	205	2.00 KW
3/14/2011	EC-LG	32		33.75	219	2.00 KW
2/10/2011	EC-LG	28	L	70.86	650	2.00 KW
1/13/2011	EC-LG	30	L	70.86	650	2.00 KW
12/14/2010	EC-LG	32	L	70.86	650	2.00 KW
11/12/2010	EC-LG	30		53.13	444	12.00 KW
10/13/2010	EC-LG	30	R	199.04	2308	13.00 KW
9/13/2010	EC-LG	32	R	246.88	3160	13.00 KW
8/12/2010	EC-LG	29	R	245.19	2884	11.00 KW
7/14/2010	EC-LG	30	R	241.19	2791	12.00 KW
6/14/2010	EC-LG	32		28.44	160	12.00 KW

5/13/2010	EC-LG	29		38.23	289	2.00 KW
4/14/2010	EC-LG	30	R	34.13	242	4.00 KW
3/15/2010	EC-LG	32		69.62	650	2.00 KW
2/11/2010	EC-LG	28	L	69.62	650	2.00 KW
1/14/2010	EC-LG	30	L	69.62	650	2.00 KW
12/15/2009	EC-LG	32		65.63	604	2.00 KW
11/13/2009	EC-LG	30		24.92	136	5.00 KW
10/14/2009	EC-LG	30	R	183.84	1963	12.00 KW
9/14/2009	EC-LG	32	R	206.87	2209	12.00 KW
8/13/2009	EC-LG	29		256.22	3050	12.00 KW
7/15/2009	EC-LG	30	E	246.39	2850	13.00 KW
6/15/2009	EC-LG	32		215.84	2706	12.00 KW
5/14/2009	EC-LG	29		41.83	373	10.00 KW
4/15/2009	EC-LG	30		42.67	384	2.00 KW
3/16/2009	EC-LG	32		44.51	410	2.00 KW
2/12/2009	EC-LG	29		40.92	371	2.00 KW
1/14/2009	EC-LG	30		41.48	384	2.00 KW
12/15/2008	EC-LG	32		43.41	410	3.00 KW
11/13/2008	EC-LG	30	R	39.69	360	3.00 KW
10/14/2008	EC-LG	32	R	179.98	2490	12.00 KW
9/12/2008	EC-LG	30	R	225.57	3395	12.00 KW
8/13/2008	EC-LG	29	R	223.65	3137	12.00 KW
7/15/2008	EC-LG	32	R	212.19	2850	12.00 KW
6/13/2008	EC-LG	30		50.43	508	11.00 KW
5/14/2008	EC-LG	29	V	61.72	725	4.00 KW
4/15/2008	EC-LG	32	V	56.64	650	2.00 KW
3/14/2008	EC-LG	30		55.16	650	3.00 KW
2/13/2008	EC-LG	29		53.86	650	2.00 KW
1/15/2008	EC-LG	32	E	53.86	650	2.00 KW
12/14/2007	EC-LG	30		53.86	650	2.00 KW
11/14/2007	EC-LG	30	V	34.5	348	3.00 KW
10/15/2007	EC-LG	32		110.23	1529	13.00 KW
9/13/2007	EC-LG	30	R	199.45	3648	15.00 KW
8/14/2007	EC-SG	29	R	234.88	3035	13.00 KW
7/16/2007	EC-SG	32	R	218.05	2816	13.00 KW
6/14/2007	EC-SG	30	S	241.54	3450	6.00 KW
5/15/2007	EC-SG	29	R	13.74	155	2.00 KW
4/16/2007	EC-SG	32		69.74	1052	6.00 KW
3/15/2007	EC-SG	30		13.74	155	2.00 KW
2/13/2007	EC-SG	28		13.12	145	2.00 KW
1/16/2007	EC-SG	33	L	44.64	650	2.00 KW
12/14/2006	EC-SG	30		44.64	650	0.00 KW
11/14/2006	EC-SG	32	E	44.64	650	2.00 KW
10/13/2006	EC-SG	30	R	125.55	1946	12.00 KW
9/13/2006	EC-SG	30	E	110.09	1600	12.00 KW
8/14/2006	EC-SG	31	R	124.21	1733	12.00 KW
7/14/2006	EC-SG	30	R	117.49	1638	12.00 KW

6/14/2006	EC-SG	30	R	110.23	1504	13.00 KW
5/15/2006	EC-SG	31	R	56.04	728	5.00 KW
4/14/2006	EC-SG	30		39.54	500	2.00 KW
3/15/2006	EC-SG	30	E	39.54	500	2.00 KW
2/13/2006	EC-SG	31	E	39.54	500	2.00 KW
1/13/2006	EC-SG	31	E	39.54	500	2.00 KW
12/13/2005	EC-SG	32	R	47.71	613	2.00 KW
11/11/2005	EC-SG	29	R	21.44	250	2.00 KW
10/13/2005	EC-SG	30	R	140.78	1899	14.00 KW
9/13/2005	EC-SG	32	R	139.83	1786	14.00 KW
8/12/2005	EC-SG	29	R	110.93	1366	14.00 KW
7/14/2005	EC-SG	30	E	202.28	2500	13.00 KW
6/14/2005	EC-SG	32	R	99.87	1336	13.00 KW
5/13/2005	EC-SG	29	R	21.05	264	14.00 KW
4/14/2005	EC-SG	17		39.25	539	2.00 KW
3/28/2005	EC-SG	27	S	40.29	550	1.00 KW
3/1/2005	EC-SG	32		43.66	600	1.00 KW
1/28/2005	EC-SG	30		26.84	350	1.00 KW
12/29/2004	EC-SG	30	E	30.2	400	2.00 KW
11/29/2004	EC-SG	32	R	34.91	470	2.00 KW
10/28/2004	EC-SG	30	R	81.39	1161	12.00 KW
9/28/2004	EC-SG	32		223.29	3229	13.00 KW
8/27/2004	EC-SG	29		193.03	2561	13.00 KW
7/29/2004	EC-SG	30		187.57	2500	13.00 KW
6/29/2004	EC-SG	32		174.59	2343	12.00 KW
5/28/2004	EC-SG	29		106.41	1518	12.00 KW
4/29/2004	EC-SG	29	R	18.18	229	1.00 KW
3/31/2004	EC-SG	30	R	28.31	377	1.00 KW
1/3/2004	EC-SG	32	R	41.79	574	2.00 KW