

Cefalo, James

From: Cefalo, James
Sent: Friday, January 17, 2020 2:39 PM
To: 'klbmasonry@gmail.com'; 'Luke Marchant'; 'rons@swaffordlaw.com'
Subject: Application for Transfer 83687 (Buckwalter)
Attachments: Antelope Creek Docs.pdf

Dear Parties:

Yesterday I spoke with Lucas Yockey, watermaster for Water District 34, about some pending water matters. I took the opportunity to ask him a few questions about water delivery on Antelope Creek. Lucas confirmed the delivery practices summarized by Ken Buckwalter during our conference. In most years, water rights begin to be curtailed by the end of June because the flow in the creek diminishes rapidly after the snowmelt runoff. Once water rights begin to be curtailed, the ditches on Antelope Creek divert the full flow of the creek and the natural creek channels below the Hanrahan Ditch are dried up.

We discussed a settlement proposal during the conference. I think it is worthwhile to restate the settlement proposal in this email:

All of the water rights in question list the Hanrahan Ditch as the authorized point of diversion. Wing and Keller do not currently have access to the Hanrahan Ditch. In order to access water in the Hanrahan Ditch, Wing and Keller would need to acquire easements across the Buckwalter property. The easiest way for Keller and Wing to access water from Antelope Creek would be to pump directly out of the creek. The South Fork of Antelope Creek, which flows through the Keller property, only has water in the stream channel during the snowmelt runoff period. Once the snowmelt ceases, the ditches on Antelope Creek divert all of the water in the creek. In dry years, water would only be available in the South Fork stream channel at the Keller property in May and early June. In wet years, water may remain in the channel until mid-July. During the snowmelt runoff period all water rights are delivered. Once the snowmelt ceases, the watermaster begins to curtail junior water rights. In dry years, the curtailment level can drop to the 1880 water rights.

If Keller and Wing intend to divert water directly from the South Fork of Antelope Creek, they only need a junior water right to do so. During times when water is in the channel at the Keller property, most rights are being delivered on Antelope Creek. At the time when water rights are curtailed (and only senior rights are receiving water), there is generally no water in the stream channel at the Keller property. Therefore, Keller and Wing would not benefit from holding a senior water right.

The proposal is to cover the Wing and Keller properties with only a proportionate share of water right 34-14365 (priority date 5/15/1904). All other rights would shift to the Buckwalter property.

I've attached some documents that may help the parties evaluate the settlement proposal. I've included curtailment records for Water District 34 and delivery records for the Hanrahan Ditch for 2013 (a drought year) and 2018 (a wet year). Similar records are available for many other years, but I only pulled the records for 2013 and 2018. Water District 34 records for additional years can be found

at: https://idwr.idaho.gov/apps/ExtSearch/RelatedDocsWaterDistrictyearwithyear.asp?water_dist_no=34&wateryear=
I've also included a summary of the water rights in the Hanrahan Ditch, organized by priority date. Finally, I've included the 2018 stream flow records for the stream gage on Antelope Creek, which is located 2.5 miles upstream of the Hanrahan Ditch headgate. Flow records for other years can be obtained from the USGS website: https://waterdata.usgs.gov/id/nwis/uv/?site_no=13131000&PARAMeter_cd=00065,00060,00010

I hope you find this information helpful.

James Cefalo

PRIORITY DATES

Water Season
2013

RB=River Broke

DAY	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
1	4/22/1884		10/2/1885 / RB			
2					5/20/1884 RB	
3	5/20/1884	5/1/1887				5/20/1884 RB
4			10/21/1885 / RB		½ of 5/20/1884	
5				9/1/1884 / RB		
6	1/3 of 5/20/1884	5/31/1894	½ of 6/1/1885 / RB	½ of 7/15/1884 RB		
7			½ of 2/18/1885 / RB	½ of 6/1/1884 RB		5/20/1884 RB
8						
9	1/3 of 5/20/1884				½ of 5/20/1884 RB	
10		3/1/1902	9/14/1884 / RB			5/20/1884 RB
11						
12				½ of 6/1/1884 RB	½ of 5/20/1884 RB	
13	1/3 of 5/20/1884	6/1/1898				
14			Antelope all 1885			5/20/1884 RB
15	1/3 of 10/12/1884		6/1/1884 / RB	½ of 6/1/1884 RB		
16	6/1/1886	1/1/1895			½ of 5/20/1884 RB	
17						
18	6/1/1887	6/1/1887	6/1/1884 / RB		7/15/1884 RB	
19				½ of 6/1/1884 RB		
20	8/1/1888	6/1/1887			5/20/1884 RB	
21						
22			No Call	½ of 6/1/1884 RB		
23	5/1/1892				5/20/1884 RB	
24		6/1/1885 RB	5/1/1880 Antelope			
25			7/31/1884 / RB			
26				½ of 6/1/1884 RB	5/20/1884 RB	
27	8/1/1888	5/1/1886 RB			Antelope	
28						
29		Antelope all 1895	9/1/1884 / RB			
30	8/1/1888			5/20/1884 RB	5/20/1884 RB	
31						

2013

13131050 Antelope 8 (HANRAHAN)

Mean Discharge in Cubic Feet Per Second

Day	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
01	0	5.2	--	--	--	--	--	22.4	15.2	12.5	6.31	27
02	0	5.2	--	--	--	--	8.03	22.4	26.4	12.5	6.31	27
03	0	0	--	--	--	--	8.03	22.4	26.4	12.5	6.31	24
04	0	0	--	--	--	--	8.03	22.4	26.4	12.5	6.31	24
05	0	0	--	--	--	--	8.03	22.4	26.4	12.5	6.31	24
06	0	0	--	--	--	--	8.03	25.5	26.4	9.52	6.31	24
07	0	0	--	--	--	--	12.5	25.5	26.4	9.52	6.31	24
08	0	0	--	--	--	--	12.5	25.5	26.4	8.96	6.31	14
09	0	0	--	--	--	--	17.6	25.5	19.6	8.96	6.31	14
10	0	--	--	--	--	--	17.6	25.5	19.6	8.96	6.81	12.2
11	0	--	--	--	--	--	17.6	31.4	17.5	8.96	6.81	12.2
12	5	--	--	--	--	--	17.6	31.4	17.5	8.96	6.81	12.2
13	5	--	--	--	--	--	17.6	26.9	17.5	7.33	6.81	12.2
14	5	--	--	--	--	--	16.9	26.9	17.5	7.33	6.81	12.2
15	5	--	--	--	--	--	16.9	26.9	17.5	7.33	6.81	14.7
16	5	--	--	--	--	--	16.9	26.9	15.1	7.33	6.81	0
17	5	--	--	--	--	--	16.9	26.9	15.1	7.33	7.07	0
18	5	--	--	--	--	--	16.9	31.1	15.1	7.33	7.07	0
19	5	--	--	--	--	--	16.9	31.1	15.8	7.33	7.07	0
20	5	--	--	--	--	--	16.9	18.6	15.8	5.8	7.07	0
21	5.2	--	--	--	--	--	19.3	18.6	15.8	5.8	7.07	0
22	5.2	--	--	--	--	--	19.3	18.6	15.8	5.8	7.07	0
23	5.2	--	--	--	--	--	19.3	18.6	12.2	5.8	7.07	9
24	5.2	--	--	--	--	--	19.3	18.6	12.2	5.8	8.96	9
25	5.2	--	--	--	--	--	19.3	16.6	12.8	5.8	8.96	9
26	5.2	--	--	--	--	--	19.3	16.6	12.8	5.8	12.5	9
27	5.2	--	--	--	--	--	19.3	16.9	12.8	6.81	12.5	9
28	5.2	--	--	--	--	--	22.4	15.2	12.8	6.81	12.5	8.8
29	5.2	--	--	--	--	--	22.4	15.2	12.8	6.31	12.5	8.8
30	5.2	--	--	--	--	--	22.4	15.2	15.1	6.31	12.5	8.8
31	--	--	--	--	--	--	22.4	--	15.1	6.31	--	8.8
Total	97.00	10.40	--	--	--	--	496.15	687.70	553.80	250.80	234.37	357.90
Mean	3.23	1.16	--	--	--	--	16.54	22.92	17.86	8.09	7.81	11.55
Min	0.00	0.00	--	--	--	--	8.03	15.20	12.20	5.80	6.31	0.00
Max	5.20	5.20	--	--	--	--	22.40	31.40	26.40	12.50	12.50	27.00
Acre-feet	192.57	20.65	--	--	--	--	985.00	1365.2	1099.4	497.91	465.29	710.54

Total CFS: 2,688.12

Total Acre-feet: 5,336.72

PRIORITY DATES

Antelope

2018

RB = River Broke

<u>Day</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>
1	All Priority's					
2						
3						
4						
5						
6						
7			11-11-1912			
8						All Priority's
9						
10						
11						
12						
13			1-1-1899			
14						
15						EOS
16			6-1-1890 RB			
17						
18						
19						
20						
21						
22						
23			7-21-1886 RB			
24						
25						
26						
27						
28						
29						
30						
31						

Annual Summary for Water District 34 Big Lost River 13131050 - D - ANTELOPE 8 (HANRAHAN)

DISCHARGE, CUBIC FEET PER SECOND, CALENDAR YEAR 01/01/2018 - 12/31/2018

c - Calculated, e - Estimated, i - Interpolated, m - Measured and n - Not Specified

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	--	--	--	40.5 ^m	46.9 ⁱ	42.4 ^e	24.1 ⁿ	15.6 ^e	10.4 ^e	--	--
2	--	--	--	--	40.5 ^m	46.9 ⁱ	24.1 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--
3	--	--	--	--	40.5 ^m	46.9 ^e	24.1 ^e	24.1 ⁿ	15.6 ^e	10.4 ^e	--	--
4	--	--	--	--	40.5 ^m	46.9 ^e	24.1 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--
5	--	--	--	--	40.5 ^m	46.9 ^e	24.1 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--
6	--	--	--	--	40.5 ^m	46.9 ^e	24.1 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--
7	--	--	--	--	40.5 ^m	46.9 ^e	24.1 ^e	17.5 ^e	15.6 ^e	10.4 ^e	--	--
8	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	17.5 ^e	15.6 ^e	10.4 ^e	--	--
9	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	17.5 ^e	15.6 ^e	8.20 ^e	--	--
10	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	17.5 ^e	15.6 ^e	8.20 ^e	--	--
11	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	17.5 ^e	15.6 ^e	8.20 ^e	--	--
12	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	17.5 ^e	15.6 ^e	8.20 ^e	--	--
13	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	15.6 ^e	15.6 ^e	8.20 ^e	--	--
14	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	15.6 ^e	15.6 ^e	8.20 ^e	--	--
15	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	15.6 ^e	15.6 ^e	8.20 ^e	--	--
16	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	15.6 ^e	15.6 ^e	--	--	--
17	--	--	--	--	45.5 ^m	46.9 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
18	--	--	--	--	45.5 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
19	--	--	--	--	45.5 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
20	--	--	--	--	45.5 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
21	--	--	--	--	46.9 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
22	--	--	--	--	46.9 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
23	--	--	--	--	46.9 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
24	--	--	--	--	46.9 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
25	--	--	--	--	46.9 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
26	--	--	--	--	46.9 ^m	42.4 ^e	4.13 ^e	15.6 ^e	10.4 ^e	--	--	--
27	--	--	--	--	46.9 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
28	--	--	--	--	46.9 ^m	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
29	--	--	--	--	46.9 ⁱ	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
30	--	--	--	--	46.9 ⁱ	42.4 ^e	24.1 ^e	15.6 ^e	10.4 ^e	--	--	--
31	--	--	--	--	46.9 ^m	--	24.1 ^e	15.6 ^e	--	--	--	--
Total:	--	--	--	--	1395	1347	746.3	539.6	395.2	138.4	--	--
Mean:	--	--	--	--	45.0	44.9	24.1	17.4	13.2	9.23	--	--
Min:	--	--	--	--	40.5	42.4	4.13	15.6	10.4	8.20	--	--
Max:	--	--	--	--	46.9	46.9	42.4	24.1	15.6	10.4	--	--
AC-FT:	--	--	--	--	2767	2673	1480	1070	783.9	274.5	--	--

CALENDAR YEAR 01/01/2018 - 12/31/2018

TOTAL CFS: 4562

TOTAL AC-FT: 9049

Water Rights Diverted at Hanrahan Ditch

Water Right	Priority Date	Rate	Cumulative Rate
34-10496	9/30/1879	3.620	3.620
34-13802	9/30/1879	0.065	3.685
34-13803	9/30/1879	1.695	5.380
34-14360	9/30/1879	0.280	5.660
34-14361	9/30/1879	0.760	6.420
34-865B	9/30/1879	1.600	8.020
34-10767	5/1/1880	2.800	10.820
34-13808	5/1/1880	0.037	10.857
34-13809	5/1/1880	0.963	11.820
34-14354	5/30/1883	0.700	12.520
34-14355	5/30/1883	1.900	14.420
34-10765	11/15/1883	1.600	16.020
34-186	11/15/1883	0.900	16.920
34-481	11/15/1883	1.250	18.170
34-212	8/20/1886	2.400	20.570
34-574	6/1/1888	3.140	23.710
34-10763	10/15/1893	3.100	26.810
34-482	10/15/1893	1.500	28.310
34-849B	6/1/1895	1.400	29.710
34-411	6/1/1897	3.200	32.910
34-177	6/1/1898	1.400	34.310
34-412	6/1/1898	0.800	35.110
34-833	5/1/1900	1.600	36.710
34-13804	5/15/1902	0.205	36.915
34-13805	5/15/1902	5.395	42.310
34-14362	5/1/1904	0.150	42.460
34-14363	5/1/1904	0.410	42.870
34-14442	5/1/1904	0.820	43.690
34-14443	5/1/1904	0.360	44.050
34-14444	5/1/1904	0.400	44.450
34-661B	5/1/1904	0.020	44.470
34-661D	5/1/1904	1.040	45.510
34-14364	5/15/1904	0.450	45.960
34-14365	5/15/1904	1.220	47.180
34-111	5/1/1905	0.200	47.380
34-112	5/1/1905	1.200	48.580
34-113	5/1/1905	1.200	49.780
34-116A	5/1/1905	1.800	51.580
34-657A	5/15/1905	0.800	52.380
34-657B	5/15/1905	1.600	53.980
34-13806	5/1/1907	0.027	54.007
34-13807	5/1/1907	0.713	54.720
34-266	7/1/1907	3.200	57.920

34-14356	5/15/1908	0.160	58.080
34-14357	5/15/1908	0.440	58.520
34-14581	5/12/1909	0.080	58.600
34-14646	5/12/1909	0.020	58.620
34-512	5/12/1909	1.060	59.680
34-14445	5/10/1911	0.820	60.500
34-14446	5/10/1911	0.360	60.860
34-14447	5/10/1911	0.400	61.260
34-695	5/10/1911	0.020	61.280
34-14358	5/22/1911	0.170	61.450
34-14359	5/22/1911	0.450	61.900
34-658	9/1/1913	0.800	62.700
34-13568	5/1/1980	4.680	67.380



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USGS 13131000 ANTELOPE CREEK NR DARLINGTON, ID

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site

Time-series: Daily data ▼	GO
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This station managed by the Idaho Falls Field Office.

Available Parameters

- ☐ All 2 Available Parameters for this site
- ☒ 00060 Discharge(Mean)
- ☒ 00060 Discharge(Mean) [(2)]

Period of Record

2017-08-23 2020-01-17
 1913-04-29 1922-09-29

Output format

- ☐ Graph
- ☐ Graph w/ stats
- ☐ Graph w/ meas
- ☐ Graph w/ (up to 3) parms
- ☒ Table
- ☐ Tab-separated

GO

Days (213) Summary of all available data for this site
Instantaneous-data availability statement

-- or --

Begin date

2018-04-01

End date

2018-10-31

Daily Mean Discharge, cubic feet per second

DATE	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018
1	167 ^A	218 ^A	404 ^A	119 ^A	40.0 ^A	25.7 ^A	23.4 ^A
2	148 ^A	191 ^A	350 ^A	112 ^A	41.7 ^A	25.0 ^A	21.1 ^A
3	85.4 ^A	170 ^A	328 ^A	108 ^A	39.2 ^A	24.0 ^A	19.4 ^A
4	79.9 ^A	165 ^A	330 ^A	101 ^A	39.4 ^A	23.4 ^A	21.0 ^A
5	146 ^A	182 ^A	346 ^A	89.4 ^A	38.4 ^A	22.7 ^A	25.6 ^A
6	231 ^A	211 ^A	345 ^A	83.0 ^A	38.1 ^A	21.4 ^A	26.5 ^A
7	247 ^A	263 ^A	327 ^A	80.6 ^A	37.1 ^A	20.0 ^A	26.5 ^A
8	231 ^A	289 ^A	324 ^A	74.7 ^A	35.0 ^A	19.0 ^A	26.9 ^A
9	142 ^A	314 ^A	309 ^A	71.8 ^A	31.1 ^A	20.4 ^A	29.8 ^A
10	137 ^A	327 ^A	308 ^A	73.5 ^A	30.1 ^A	21.3 ^A	31.5 ^P
11	193 ^A	352 ^A	262 ^A	70.2 ^A	28.9 ^A	21.7 ^A	30.1 ^P
12	163 ^A	389 ^A	223 ^A	67.1 ^A	28.9 ^A	21.9 ^A	29.3 ^P
13	115 ^A	377 ^A	197 ^A	61.7 ^A	28.5 ^A	23.1 ^A	30.1 ^P
14	106 ^A	324 ^A	201 ^A	60.4 ^A	28.7 ^A	22.0 ^A	30.4 ^P
15	108 ^A	308 ^A	213 ^A	59.9 ^A	29.4 ^A	22.8 ^A	29.8 ^P
16	131 ^A	318 ^A	226 ^A	59.1 ^A	29.2 ^A	23.4 ^A	29.9 ^P
17	106 ^A	339 ^A	226 ^A	61.6 ^A	29.9 ^A	22.7 ^A	29.0 ^P
18	96.0 ^A	348 ^A	303 ^A	60.2 ^A	29.0 ^A	21.8 ^A	28.4 ^P
19	98.9 ^A	354 ^A	235 ^A	56.5 ^A	27.7 ^A	21.7 ^A	27.6 ^P
20	101 ^A	362 ^A	212 ^A	54.1 ^A	29.7 ^A	21.5 ^A	27.1 ^P
21	129 ^A	359 ^A	192 ^A	52.3 ^A	29.8 ^A	21.5 ^A	27.2 ^P
22	162 ^A	378 ^A	186 ^A	50.5 ^A	30.7 ^A	20.2 ^A	27.2 ^P
23	211 ^A	453 ^A	186 ^A	48.9 ^A	31.1 ^A	20.0 ^A	28.9 ^P

24	172 ^A	471 ^A	167 ^A	50.6 ^A	28.2 ^A	21.6 ^A	29.9 ^P
25	164 ^A	476 ^A	152 ^A	53.8 ^A	26.9 ^A	22.4 ^A	28.4 ^P
26	177 ^A	480 ^A	147 ^A	50.9 ^A	25.8 ^A	23.2 ^A	27.8 ^P
27	201 ^A	452 ^A	142 ^A	47.4 ^A	34.2 ^A	21.9 ^A	26.6 ^P
28	231 ^A	419 ^A	137 ^A	45.3 ^A	36.5 ^A	20.8 ^A	30.2 ^P
29	257 ^A	401 ^A	143 ^A	44.2 ^A	31.1 ^A	21.5 ^A	31.4 ^P
30	224 ^A	414 ^A	133 ^A	43.9 ^A	27.1 ^A	21.5 ^A	34.7 ^P
31		417 ^A		42.0 ^A	26.6 ^A		36.3 ^P
COUNT	30	31	30	31	31	30	31
MAX	257	480	404	119	41.7	25.7	36.3
MIN	79.9	165	133	42.0	25.8	19.0	19.4

Explanation

A	Approved for publication -- Processing and review completed.
P	Provisional data subject to revision.

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