

COTTONWOOD

Caledonia
Kirby Cottonwood

DESCRIPTION AND OPERATION MEMORANDUM

CALEDONIA DITCH

USGS ID 43108 G5 USGS NAME HAMILTON DOME

DIVERSION DESCRIPTION

One 4' wooden slide gate in wooden headwall.

DIVERSION LOCATION

Source: Cottonwood Creek
S 7° 5' W, 840' from the SW corner Section 2, Township 44N, Range 98W, and is in the NE 1/4 NE 1/4 of Section 10.

CONVEYANCE DESCRIPTION

Open dirt ditch 3 miles long with 2 major laterals adding another 2 1/2 miles of ditch. Ditch serves approximately 780 acres and 3 users. Ditch capacity ~ 18 c.f.s. Delivers water to some lands originally under Berry ditch.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
10/21/1907	8434	Irr.,Dom.	616.50	8.81		8.81	
3/26/1910	2199E	Irr.	262.00	3.73		12.54	
1/17/1914	2910E	Irr.,Dom.	84.40	1.21		13.75	
11/28/1930	4750E	Irr.,Dom.,Stk.	38.00	0.54		14.29	
12/04/1935	5206E	Irr.	39.00	0.56		14.85	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with time of year; estimated 25-30% at peak.

IRRIGATION PRACTICES

Conventional flood irrigation practices. Some use of pipe.

CROP TYPES / CONSUMPTIVE USE

Alfalfa hay, pasture, occasional small grain.

RETURN FLOWS

Minimal

OTHER OPERATIONAL INFORMATION

CONTACT INFORMATION

Rhodes Ranch, Inc.
Hamilton Dome, WY
(307) 867-2444

PHOTO LOG

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

DIVERSION RECORD

Year	Measured Data
1983	4/5, 5 cfs; 4/7, 7 cfs; 5/16, 5 cfs; 5/19, 8 cfs; 5/23, 10 cfs; 6/2, 12 cfs; 6/6, 12 cfs; 7/5, 10 cfs; 7/26, 4 cfs; 7/28, 4 cfs; 8/7, 5 cfs; 8/9, 5 cfs; 8/25, 5 cfs; 8/29, 5 cfs; 8/31, 5 cfs; 9/7, Off; 9/11, Off; 9/13, Off; 9/15, Off
1984	5/4, 10 cfs; 5/14, 8 cfs; 5/21, Off; 5/30, 8 cfs; 6/7, 8 cfs; 6/12, 8 cfs; 6/18, 10 cfs; 6/25, 8 cfs; 6/27, 8 cfs; 7/2, 6 cfs; 7/12, 5 cfs; 7/18, 3 cfs; 7/23, 5 cfs; 8/3, 5 cfs; 8/13, 5.5 cfs; 8/29, 4 cfs; 9/6, 4 cfs; 9/12, 5 cfs; 9/14, 5 cfs
1985	5/15, 3.77 cfs; 5/24, 5.36 cfs; 6/12, 5.03 cfs; 6/23, 5.36 cfs; 6/28, 3.48 cfs; 7/16, Off; 7/17, Off; 7/18, Off; 7/22, Off; 7/25, Off; 8/2, Off; 8/7, Off; 8/19, Off; 8/20, Off; 8/22, 4.05 cfs; 8/26, 5.5 cfs; 8/30, 5.5 cfs; 9/4, 5.5 cfs; 9/6, 3.8 cfs; 9/9, 2.86 cfs; 9/16, 1.46 cfs
1986	4/7, 6.59 cfs; 4/8, 6.77 cfs; 4/14, Off; 4/16, 5.7 cfs; 4/17, 5.19 cfs; 4/21, 3.33 cfs; 4/23, 8.71 cfs; 4/28, 5.7 cfs; 5/2, 5.53 cfs; 5/5, 8.71 cfs; 5/7, 10.59 cfs; 5/13, 6.05 cfs; 5/15, 7.91 cfs; 5/17, 8.51 cfs; 5/23, 10.59 cfs; 5/27, 12.15 cfs; 6/2, 11.25 cfs; 6/4, Off; 6/6, 11.03 cfs; 6/11, 11.59 cfs; 6/14, 5.03 cfs; 6/20, 5.36 cfs; 6/23, 5.88 cfs; 6/25, 6.41 cfs; 7/1, 7.91 cfs; 7/2, 7.72 cfs; 7/28, Off; 7/29, Off; 7/30, Off; 8/4, 5.88 cfs; 8/7, Off; 8/11, Off; 8/28, 2.78 cfs; 8/29, 2.78 cfs; 9/2, 0.58 cfs; 9/3, 0.52 cfs; 9/5, 3.475 cfs; 9/11, 2.785 cfs; 9/19, Off; 9/26, Off
1995	3/14, 2.52 cfs; 3/27, 8.11 cfs; 4/3, 9.53 cfs; 4/5, 8.51 cfs; 4/10, 4.54 cfs; 4/13, 6.41 cfs; 4/18, 6.41 cfs; 4/21, 4.2 cfs; 4/24, 4.54 cfs; 4/27, 7.15 cfs; 5/2, 0.7 cfs; 5/9, 3.05 cfs; 5/14, 6.23 cfs; 5/16, 8.31 cfs; 5/22, 9.95 cfs; 6/1, 13.55 cfs; 6/7, 14.03 cfs; 6/16, 12.61 cfs; 6/20, 3.19 cfs; 6/23, 3.77 cfs; 6/28, Off; 7/3, Off; 7/13, Off; 7/19, Off; 7/27, Off; 8/3, Off; 8/9, 2.39 cfs; 8/15, Off; 8/23, Off; 9/8, Off; 9/14, Off; 9/21, Off; 9/26, Off; 10/4, Off; 10/9, Off
1996	4/10, 4.22 cfs; 4/17, 6.41 cfs; 4/25, 4.98 cfs; 4/30, 7.15 cfs; 5/9, 7.34 cfs; 5/17, 9.11 cfs; 5/24, 9.11 cfs; 5/31, 12.15 cfs; 6/7, 12.15 cfs; 6/12, 8.11 cfs; 6/24, 3.77 cfs; 7/2, 2.39 cfs; 7/11, 2.39 cfs; 7/17, 1.26 cfs; 7/19, 1.47 cfs; 7/23, 4.38 cfs; 7/30, 1.8 cfs; 8/8, 2.65 cfs; 8/13, Off; 8/20, 2.92 cfs; 8/23, 2.39 cfs; 8/28, Off; 9/6, Off; 9/13, Off; 9/20, 5.36 cfs; 9/26, 5.53 cfs; 10/4, 4.07 cfs; 10/11, Off
1997	3/11, Off; 3/25, Off; 4/16, 6.05 cfs; 4/24, 3.77 cfs; 5/2, 4.38 cfs; 5/8, 8.31 cfs; 5/14, 14.27 cfs; 5/20, 12.38 cfs; 5/28, 12.38 cfs; 6/3, 12.61 cfs; 6/11, Off; 6/18, Off; 6/25, Off; 7/2, Off; 7/9, Off; 7/11, Off; 7/15, Off; 7/18, Off; 7/30, 7.15 cfs; 8/6, 3.77 cfs; 8/8, 3.77 cfs; 8/13, 2.39 cfs; 8/19, 2.75 cfs; 8/26, Off; 8/29, Off; 9/5, Off; 9/10, Off; 9/20, Off; 9/23, Off; 9/30, Off; 10/2, Off; 10/6, Off; 10/9, Off; 10/17, Off; 10/22, Off
1998	4/30, 9.11 cfs; 5/5, 9.74 cfs; 5/14, 9.74 cfs; 5/22, 8.91 cfs; 5/29, 9.32 cfs; 6/2, 9.74 cfs; 6/12, 11.03 cfs; 6/16, 13.31 cfs; 6/24, 8.11 cfs; 6/30, 5.36 cfs; 7/8, 5.36 cfs; 7/14, 3.77 cfs; 7/22, 5.33 cfs; 7/28, 7.91 cfs; 8/5, 2.65 cfs; 8/12, 3.05 cfs; 8/28, 5.03 cfs; 9/1, 5.03 cfs; 9/9, Off; 9/16, Off; 10/1, Off; 10/6, Off
1999	3/18, Off; 3/26, 3.48 cfs; 4/7, 3.77 cfs; 4/14, 3.05 cfs; 4/21, 4.54 cfs; 5/5, 3.92 cfs; 5/13, 5.53 cfs; 5/21, 5.53 cfs; 5/26, 8.51 cfs; 6/4, 8.11 cfs; 6/15, 3.05 cfs; 6/24, 2.65 cfs; 6/30, Off; 8/7, Off; 8/16, Off; 8/18, Off; 8/23, 2.15 cfs; 8/25, 1.91 cfs; 8/31, 1.36 cfs; 9/8, 1.8 cfs; 9/14, 1.68 cfs; 10/4, 1.36 cfs; 10/14, 3.48 cfs; 10/19, 4.07 cfs
2000	3/31, 11.25 cfs; 4/3, 4.7 cfs; 4/6, 4.54 cfs; 4/13, 21.33 cfs; 4/20, 18.86 cfs; 4/26, 13.55 cfs; 5/3, 13.55 cfs; 5/9, 11.25 cfs; 5/16, 11.47 cfs; 5/31, 8.31 cfs; 6/6, 7.15 cfs; 6/13, 9.11 cfs; 6/20, 8.91 cfs; 6/28, 18.07 cfs; 7/6, 12.84 cfs; 7/11, 2.39 cfs; 7/17, 3.48 cfs; 7/25, Off; 7/28, Off; 8/1, Off; 8/8, Off; 8/10, Off; 8/16, Off; 8/22, Off; 8/29, Off; 9/7, Off; 9/8, Off; 9/13, Off; 9/20, 1.91 cfs; 9/26, 4.07 cfs
2001	4/4, 1.26 cfs; 4/10, 3.77 cfs; 4/18, 3.92 cfs; 4/25, 9.74 cfs; 4/30, 6.77 cfs; 5/1, 7.34 cfs; 5/2, 7.34 cfs; 5/10, 8.51 cfs; 5/11, 8.51 cfs; 5/17, 7.72 cfs; 5/22, 5.36 cfs; 5/24, 5.7 cfs; 6/1, 3.77 cfs; 6/5, 4.07 cfs; 6/8, Off; 6/12, Off; 6/15, 3.77 cfs; 6/19, 4.7 cfs; 6/22, Off; 6/26, Off; 6/29, Off; 7/3, Off; 7/6, Off; 7/13, 3.77 cfs; 7/18, Off; 7/20, Off; 7/24, Off; 7/25, Off; 7/31, Off; 8/2, Off; 8/8, Off; 8/14, Off; 8/16, Off; 9/5, Off; 9/11, Off; 9/13, Off; 9/18, Off; 9/20, Off; 9/25, Off; 10/2, Off

Notes:

- 1 For days in which two measurements were taken, one of the measurements was assigned to the day immediately before or after the actual measurement day.
- 2 Data from SEO Hydrographers Reports for years when spot measurements taken.

DESCRIPTION AND OPERATION MEMORANDUM

KIRBY DITCH

DIVERSION DESCRIPTION

One 36" screwtype sliding metal gate in concrete headwall.

DIVERSION LOCATION

Source: Cottonwood Creek

S 13° 07' W, 3458.5' from the NE corner Section 24, Township 45N, Range 97W, and is in the NE 1/4 SE 1/4 Section 24.

CONVEYANCE DESCRIPTION

Open earthen ditch 5 1/2 miles long with one major piped lateral adding another mile of conveyance system. Ditch serves approximately 600 acres and 4 users. Ditch capacity ~ 20 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
12/15/1910	10447	Irr.	436.50	6.23		6.23	
7/06/1976	6745E	Irr.	115.50	1.65		7.88	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with the time of year; estimated 35% at peak.

IRRIGATION PRACTICES

Conventional flood irrigation practices enhanced by the use of irrigation pipe.

CROP TYPES / CONSUMPTIVE USE

Alfalfa hay, pasture, occasional small grains.

RETURN FLOWS

Minimal, all to Cottonwood Creek.

OTHER OPERATIONAL INFORMATION

CONTACT INFORMATION

John Baird
Thermopolis, WY
(307) 864-3008

PHOTO LOG

Information collected from files available at Division 3 Office of the State Engineer Office in Riverton, WY, and from the ditch contact person when available.

DIVERSION RECORD