

BIG POPO AGIE

**Baldwin
Big Corral
Cemetery
Dutch Flat Taylor
Gaylor and Warnock
Nicole Table Mountain
Sandstone Popo Agie
Snavelly Grant Young**

DESCRIPTION AND OPERATION MEMORANDUM

BALDWIN AND PERALTA DITCH

USGS ID 42108 G6, 42108 G7 USGS NAME LANDER, MOUNT ARTER SE

DIVERSION DESCRIPTION

Two 2' screw type sliding metal gates in concrete headwall.

DIVERSION LOCATION

Source: Big or Middle Popo Agie River
N 35° 28' W, 2990' from the SE corner of the NW 1/4 SE 1/4 of Section 35, Township 33N, Range 100W.

CONVEYANCE DESCRIPTION

Open dirt ditch 5 miles long, with Peralta Extension and other laterals adding another 4 miles of ditch. Ditch serves approximately 20 users on approximately 880 acres. Ditch capacity ~ 15 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
1875	Terr.	Irr.	80.00	1.14		1.14	
11/13/1885	Terr.	Irr.,Dom.,Stk.	398.10	6.09		7.23	
6/01/1892	Terr.	Irr.	15.00	0.21		7.44	
2/29/1904	1168E	Irr.	187.00	2.67		10.11	
5/25/1908	1894E	Irr.	4.00	0.05		10.16	
4/05/1923	4356E	Irr.	65.00	0.93		11.09	

STORAGE RIGHTS

None, however City of Lander sometimes uses Baldwin ditch to deliver Worthen Meadows Reservoir water to Municipal Golf Course.

ESTIMATED CANAL LOSSES

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

IRRIGATION PRACTICES

Conventional flood and sprinkler irrigation practices, some buried pipe, some gated pipe, golf course.

CROP TYPES / CONSUMPTIVE USE

Alfalfa hay, native hay, pasture, lawns, gardens, and golf course.

RETURN FLOWS

Some to Big Popo Agie River, most to Little Popo Agie via Robinson Gulch, some intercepted in Dutch Flat Ditch.

OTHER OPERATIONAL INFORMATION

Informal ditch company. Numerous small parcels.

CONTACT INFORMATION

Dave Vaughn
Lander, WY
(307)332-7261

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	
1984	
1985	7/10, 11 cfs; 8/7, 5.31 cfs; 8/19, 5 cfs
1986	5/23, Off; 7/11, 7 cfs; 7/16, 9.99 cfs; 8/20, Off
1995	9/8, 2.78 cfs; 9/11, 4.86 cfs; 9/13, 3.77 cfs
1996	4/11, Off; 4/19, Off; 5/3, 1.26 cfs; 5/8, 1.57 cfs; 5/13, 3.33 cfs; 5/15, 4.7 cfs; 5/17, 3.33 cfs; 5/23, 2.39 cfs; 5/28, 2.27 cfs; 6/7, 2.39 cfs; 6/10, 15 cfs; 6/17, 7.15 cfs; 6/26, 16 cfs; 7/2, 18.33 cfs; 7/8, 14.51 cfs; 7/10, 13.55 cfs; 7/12, 12.38 cfs; 7/16, 10.16 cfs; 7/18, 9.95 cfs; 7/22, 6.96 cfs; 7/23, 7.91 cfs; 8/1, 9.95 cfs; 8/6, 6.96 cfs; 8/12, 8.31 cfs; 8/13, 5.88 cfs; 8/19, 9.95 cfs; 8/22, 9.95 cfs; 8/27, 10.11 cfs; 8/30, 9.32 cfs; 9/6, 6.41 cfs; 9/10, 6.05 cfs; 9/24, 7.15 cfs; 10/3, Off
1997	5/14, Off; 5/22, 4.86 cfs; 5/27, 2.78 cfs; 5/29, 4.22 cfs; 6/3, 1.91 cfs; 6/6, 8 cfs; 6/18, 12 cfs; 6/25, 5.2 cfs; 6/30, 5.03 cfs; 7/8, 12.38 cfs; 7/18, 8.91 cfs; 7/31, 7.15 cfs; 8/7, 9.32 cfs; 8/15, 5.36 cfs; 8/26, 2.7 cfs; 9/9, 3.5 cfs; 9/17, 5 cfs
1998	
1999	
2000	5/10, 3.7 cfs; 5/15, 4.38 cfs; 5/17, 7.34 cfs; 5/22, 9.74 cfs; 5/25, 7.53 cfs; 5/30, 14.76 cfs; 6/1, 13.31 cfs; 6/5, 18.33 cfs; 6/9, 17.54 cfs; 6/12, 15.75 cfs; 6/16, 16.76 cfs; 6/19, 15.75 cfs; 6/21, 14.76 cfs; 6/23, 15.25 cfs; 6/26, 15 cfs; 6/28, 16.67 cfs; 6/30, 14.76 cfs; 7/3, 16.25 cfs; 7/5, 11.92 cfs; 7/7, 8.71 cfs; 7/10, 9.11 cfs; 7/14, 7.53 cfs; 7/17, 6.77 cfs; 7/19, 6.23 cfs; 7/21, 4.7 cfs; 7/24, 4.38 cfs; 7/26, 4.7 cfs; 7/28, 5.36 cfs; 7/31, 4.7 cfs; 8/2, 5.03 cfs; 8/4, 4.54 cfs; 8/7, 5.7 cfs; 8/9, 3.92 cfs; 8/11, 3.33 cfs; 8/14, 4.38 cfs; 8/17, 6.66 cfs; 8/22, 4.38 cfs; 8/29, 3.48 cfs; 9/5, 7.15 cfs; 9/8, 3.77 cfs; 9/19, 2.92 cfs; 9/25, 6.05 cfs
2001	5/8, 6.05 cfs; 5/11, 10.4 cfs; 5/15, 21.3 cfs; 5/22, 12.2 cfs; 5/24, 13.3 cfs; 5/29, 12.6 cfs; 6/1, 19.7 cfs; 6/5, 17 cfs; 6/8, 17.8 cfs; 6/11, 15.5 cfs; 6/13, 15 cfs; 6/19, 14 cfs; 6/20, 16 cfs; 6/22, 17.5 cfs; 6/25, 14.8 cfs; 7/3, 9.53 cfs; 7/5, 9.32 cfs; 7/9, 8.71 cfs; 7/11, 9.11 cfs; 7/12, 9.53 cfs; 7/13, 9.11 cfs; 7/16, 9.32 cfs; 7/18, 6.77 cfs; 7/20, 6.23 cfs; 7/23, 7.2 cfs; 7/24, 2.15 cfs; 7/25, 2.15 cfs; 7/27, 2.15 cfs; 7/30, 6 cfs; 7/31, 2.39 cfs; 8/1, 0.45 cfs; 8/2, 4.54 cfs; 8/3, 5.03 cfs; 8/6, 5.36 cfs; 8/7, 7.15 cfs; 8/8, 7.91 cfs; 8/9, 8.91 cfs; 8/10, 10.4 cfs; 8/13, 8.71 cfs; 8/15, 10.4 cfs; 8/17, 9.53 cfs; 8/20, 9.95 cfs; 8/22, 11 cfs; 8/24, 8.71 cfs; 8/26, 7.53 cfs; 8/27, 5.36 cfs; 8/29, 5.36 cfs; 8/31, 5.7 cfs; 9/4, 6.05 cfs; 9/6, 5.7 cfs; 9/10, 7 cfs; 9/12, 6.5 cfs; 9/14, 6 cfs; 9/18, 6 cfs; 9/21, 5.03 cfs; 9/24, 4.7 cfs; 10/1, 3.77 cfs; 10/8, 3.77 cfs; 10/17, 9.11 cfs

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

BIG CORRAL DITCH

USGS ID 42108 H5 USGS NAME HUDSON

DIVERSION DESCRIPTION

One 8' wide sliding steel screwtype gate in concrete headwall.

DIVERSION LOCATION

Source: Big Popo Agie River
S 59° 33' 50" W, 2261.2' from the NE corner Section 20, Township 34N, Range 98W, and is in Lot 2 of Section 20.

CONVEYANCE DESCRIPTION

Open dirt ditch 5 miles long delivering water to approximately 770 acres and 10 users. Ditch diverts from Big Popo Agie River, runs approximately 1/2 mile, then siphons under the Little Popo Agie River in the western part of the Town of Hudson for 4 1/2 miles, then terminates in Sand Draw. Ditch capacity is approximately 25 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
1/02/1907	7599	Irr.,Stk.	579.80	8.25		8.25	
3/25/1907	1781E	Irr.,Stk.	120.00	1.71		9.96	
3/25/1907	1782E	Irr.	15.00	0.21		10.17	
4/29/1910	2291E	Irr.,Dom.,Stk.	11.00	0.16		10.33	
7/11/1918	3923E	Irr.,Dom.,Stk.	3.50	0.05		10.38	
8/05/1921	4248E	Irr.,Dom.,Stk.	32.50	0.46		10.84	
1/20/1923	4343E	Irr.	47.00	0.12		10.96	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

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

IRRIGATION PRACTICES

Conventional flood irrigation practices enhanced with considerable use of irrigation pipe and some sprinklers.

CROP TYPES / CONSUMPTIVE USE

Alfalfa hay, native hay, pasture, occasional small grains and corn, lawns and gardens.

RETURN FLOWS

Average; 100% to Big Popo Agie directly, through constructed drains and Sand Draw.

OTHER OPERATIONAL INFORMATION

Managed by shares ownership in Big Corral Ditch Company.

CONTACT INFORMATION

Jerry Madjic
Hudson, WY
(307) 332-2854

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	
1984	
1985	8/14, 48 cfs
1986	5/5, Off; 7/16, 5 cfs
1995	
1996	5/14, 20 cfs; 5/16, 20 cfs; 5/23, 20 cfs; 5/30, 20 cfs; 6/7, 20 cfs; 6/14, 25 cfs; 7/8, 25 cfs; 7/10, 25 cfs; 7/16, 23 cfs; 7/17, 25 cfs; 7/18, 23 cfs; 7/22, 22 cfs; 10/3, 5 cfs
1997	
1998	5/12, Off; 5/22, Off; 6/5, 5 cfs; 6/15, 7.5 cfs; 6/22, 4.5 cfs; 6/25, 4.5 cfs; 6/29, 2 cfs; 7/2, 2.5 cfs; 7/6, 2 cfs; 7/8, 2 cfs; 7/13, 2 cfs; 7/16, 2 cfs; 7/20, 2 cfs; 7/23, 2 cfs; 7/27, 2 cfs; 8/3, 2 cfs; 8/6, 2 cfs; 8/10, 2 cfs; 8/13, 2 cfs; 8/17, 0.5 cfs; 8/20, 1.5 cfs; 8/24, 1.5 cfs; 8/27, 1.5 cfs; 8/31, 1.5 cfs; 9/3, 1.5 cfs; 9/8, 1.5 cfs; 9/10, 1.75 cfs; 9/14, 1.75 cfs; 9/17, 1.75 cfs; 9/24, 1.5 cfs; 9/28, 1.5 cfs
1999	6/7, 11.6 cfs; 6/12, 13.8 cfs; 6/16, 22.1 cfs; 6/21, 19.1 cfs; 6/28, 27.2 cfs; 7/6, 14.9 cfs; 7/12, 21.8 cfs; 7/19, 21.7 cfs; 7/22, 19.7 cfs; 7/26, 20.6 cfs; 7/29, 21 cfs; 8/3, 20.5 cfs; 8/6, 23.5 cfs; 8/10, 26.5 cfs; 8/13, 23.1 cfs; 8/17, 21.6 cfs; 8/20, 17.3 cfs; 8/23, 17.2 cfs; 8/26, 22 cfs; 8/30, 22.9 cfs; 9/7, 22.9 cfs; 9/14, 24 cfs; 9/27, 9.8 cfs
2000	5/22, 19.8 cfs; 5/25, 19.3 cfs; 5/30, 13 cfs; 6/1, 9 cfs; 6/5, 14.3 cfs; 6/7, 10.5 cfs; 6/9, 23.7 cfs; 6/12, 22.8 cfs; 6/14, 23.2 cfs; 6/16, 23 cfs; 6/19, 22.5 cfs; 6/21, 20 cfs; 6/23, 21.2 cfs; 6/26, 23 cfs; 6/30, 22.5 cfs; 7/3, 21.2 cfs; 7/5, 13.8 cfs; 7/7, 13 cfs; 7/10, 17.3 cfs; 7/12, 26.2 cfs; 7/14, 22.7 cfs; 7/17, 14.9 cfs; 7/19, 12.3 cfs; 7/21, 26.3 cfs; 7/24, 20.6 cfs; 7/26, 19.4 cfs; 7/28, 20.9 cfs; 7/31, 20.2 cfs; 8/4, 25.2 cfs; 8/7, 24.9 cfs; 8/9, 24.6 cfs; 8/11, 24.5 cfs; 8/14, 22 cfs; 8/17, 24 cfs; 8/22, 22.1 cfs; 8/29, 19 cfs; 9/1, 19 cfs; 9/5, 19.2 cfs; 9/19, 7 cfs; 9/25, 3 cfs
2001	5/11, Off; 5/22, 5.7 cfs; 5/24, 9.79 cfs; 5/29, 10.9 cfs; 6/1, 10.7 cfs; 6/5, 11.3 cfs; 6/8, 10.7 cfs; 6/11, 14.5 cfs; 6/15, 13.8 cfs; 6/18, 11.6 cfs; 6/20, 15.5 cfs; 6/22, 16 cfs; 6/25, 19.8 cfs; 6/28, 21 cfs; 7/3, 19.8 cfs; 7/11, 22.7 cfs; 7/13, 22.4 cfs; 7/16, 19.3 cfs; 7/18, 19.1 cfs; 7/19, 19.1 cfs; 7/24, 16.3 cfs; 7/27, 14.2 cfs; 7/30, 9.2 cfs; 8/7, 2.3 cfs; 8/8, 2 cfs; 8/9, 2 cfs; 8/13, 1 cfs; 8/15, 2.5 cfs; 8/17, 3.5 cfs; 8/20, 3.5 cfs; 8/22, 4 cfs; 8/24, 3 cfs; 8/27, 1.5 cfs; 8/29, 1.5 cfs; 8/31, 1 cfs; 9/4, 1 cfs; 9/6, 1 cfs; 9/10, 2.5 cfs; 9/12, 2 cfs; 9/14, 2.5 cfs; 9/19, 3.5 cfs; 9/24, 2.5 cfs; 10/1, 3.5 cfs; 10/8, 3 cfs; 10/16, 3.5 cfs

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

CEMETERY DITCH

USGS ID 42108 G6 USGS Name Lander

DIVERSION DESCRIPTION

Boulder diversion dam, sliding diversion gate in concrete headwall with spill gate.

DIVERSION LOCATION

Source: Big or Middle Popo Agie River
NE 1/4 NE 1/4 section 25, township 33 N, range 100 W, 6th PM

CONVEYANCE DESCRIPTION

Open dirt ditch approximately 3 miles long with another 3 miles of laterals serving approximately 1200 acres, 8 farm turnout structures, numerous residential pumps, approximately 2/3 the ditch length is in Lander. Ditch capacity ~ 25 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
6/20/1879	Terr.	Irr.,Dom.,Stk.	395.76	7.91		7.91	
1/01/1885	Terr.	Irr.	25.00	0.36		8.27	
3/01/1886	Terr.	Irr.,Dom.,Stk.	181.70	2.85		11.12	
1/01/1887	Terr.	Irr.,Stk.	38.00	0.65		11.77	
7/14/1906	1595E	Irr.	20.00	0.28		12.05	
7/17/1907	1736E	Irr.	273.00	3.90		15.95	
10/29/1927	4587E	Irr.	5.00	0.07		16.02	
2/12/1966	7227E	Supply Ditch				16.02	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with time of year, 20% at peak

IRRIGATION PRACTICES

Conventional flood irrigation practices, some gated pipe.

CROP TYPES / CONSUMPTIVE USE

Alfalfa hay, native hay, occasional small grains, pasture, numerous lawns and gardens (estimated 30% of ditch acreage)

RETURN FLOWS

100% to Big Popo Agie River via Smith Creek, and through constructed drains.

OTHER OPERATIONAL INFORMATION

Operated by a formally organized ditch company, employs ditch manager/ditch rider, managed by shares of stock.

CONTACT INFORMATION

Ivan Laird
P.O. Box 1084
Lander, WY 82520
(307) 332-5199

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	
1984	6/4, 11.4 cfs; 7/10, 13.2 cfs; 7/24, 19.1 cfs
1985	5/8, 14 cfs; 5/12, 10.6 cfs; 5/24, 14 cfs; 6/7, 19.4 cfs; 6/8, 19.7 cfs; 6/10, 16.9 cfs; 6/15, 16.9 cfs; 6/24, 11.4 cfs; 7/3, 12.4 cfs; 7/15, 10.1 cfs; 8/5, 4.13 cfs; 8/7, 2.2 cfs; 8/19, 1.4 cfs; 8/24, 5.05 cfs; 8/27, 7.97 cfs; 8/30, 3.44 cfs; 9/17, 3.44 cfs
1986	4/24, Off; 4/30, Off; 5/5, 7.09 cfs; 5/6, 4.67 cfs; 5/23, 10.85 cfs; 5/28, 8.89 cfs; 6/3, 12.1 cfs; 6/12, 14.9 cfs; 6/27, 14.6 cfs; 7/11, 13.5 cfs; 7/12, 14.88 cfs; 7/16, 14 cfs; 7/21, 11.36 cfs; 8/1, 10.8 cfs; 8/4, 11.36 cfs; 8/6, 9.37 cfs; 8/20, 7.09 cfs
1995	9/8, 5.43 cfs; 9/11, 5.43 cfs; 9/13, 7.52 cfs
1996	4/11, Off; 4/19, Off; 5/3, Off; 5/8, Off; 5/13, 11.36 cfs; 5/15, 11.1 cfs; 5/17, 10.59 cfs; 5/20, 12.67 cfs; 5/23, 12.67 cfs; 5/28, 6.03 cfs; 6/6, 10.1 cfs; 6/12, 13.48 cfs; 6/17, 13.21 cfs; 6/26, 12.94 cfs; 7/2, 15.74 cfs; 7/8, 12.94 cfs; 7/10, 12.67 cfs; 7/12, 14.04 cfs; 7/16, 12.94 cfs; 7/18, 14.04 cfs; 7/22, 11.36 cfs; 7/25, 7.74 cfs; 8/1, 12.67 cfs; 8/6, 8.2 cfs; 8/13, 4.31 cfs; 8/16, 9.13 cfs; 8/19, 10.34 cfs; 8/22, 12.14 cfs; 8/27, 10.1 cfs; 8/30, 11.36 cfs; 9/6, 8.2 cfs; 9/10, 5.63 cfs; 9/24, 6.66 cfs; 10/3, 4.67 cfs
1997	5/14, 1.5 cfs; 5/22, 10.34 cfs; 5/27, 12.94 cfs; 5/29, 12.94 cfs; 6/3, 11.62 cfs; 6/6, 12.67 cfs; 6/9, 11.36 cfs; 6/11, 11.36 cfs; 6/18, 12.94 cfs; 6/25, 15.46 cfs; 6/30, 14.6 cfs; 7/8, 14.6 cfs; 7/18, 13.21 cfs; 7/31, 13.21 cfs; 8/7, 14.32 cfs; 8/15, 9.37 cfs; 8/26, 9.4 cfs; 9/9, 6.2 cfs; 9/17, 7.5 cfs; 9/25, 11.4 cfs
1998	5/12, Off; 5/22, 2 cfs; 6/5, 8.89 cfs; 6/10, 7.97 cfs; 6/15, 8.43 cfs; 6/22, 5.05 cfs; 6/25, 5.83 cfs; 6/29, 14.32 cfs; 7/2, 14.88 cfs; 7/6, 14.32 cfs; 7/8, 18.44 cfs; 7/13, 20.32 cfs; 7/16, 13.76 cfs; 7/20, 19.68 cfs; 7/23, 15.45 cfs; 7/27, 14.04 cfs; 7/30, 16.03 cfs; 8/3, 15.45 cfs; 8/6, 14.6 cfs; 8/10, 13.76 cfs; 8/13, 10.59 cfs; 8/17, 11.36 cfs; 8/20, 11.1 cfs; 8/24, 11.1 cfs; 8/27, 12.67 cfs; 8/31, 8.89 cfs; 9/3, 8.89 cfs; 9/8, 8.43 cfs; 9/10, 8.2 cfs; 9/14, 7.97 cfs; 9/17, 7.74 cfs; 9/21, 9.37 cfs; 9/24, 4.67 cfs; 9/28, 4.67 cfs; 9/30, 4.67 cfs
1999	5/25, 5.83 cfs; 6/3, 11.87 cfs; 6/7, 11.36 cfs; 6/12, 11.36 cfs; 6/16, 11.36 cfs; 6/21, 11.7 cfs; 6/28, 10.59 cfs; 7/6, 10.84 cfs; 7/12, 10.84 cfs; 7/19, 12.94 cfs; 7/22, 12.4 cfs; 7/26, 13.76 cfs; 7/29, 12.67 cfs; 8/3, 12.4 cfs; 8/6, 13.21 cfs; 8/10, 7.74 cfs; 8/13, 10.1 cfs; 8/17, 5.63 cfs; 8/19, 6.8 cfs; 8/20, 8.89 cfs; 8/23, 8.43 cfs; 8/26, 6.87 cfs; 8/30, 6.87 cfs; 9/3, 11.36 cfs; 9/7, 5.83 cfs; 9/14, 5.05 cfs; 9/23, 7.08 cfs; 9/27, 6.66 cfs
2000	5/10, 9.85 cfs; 5/15, 5.45 cfs; 5/17, 9.61 cfs; 5/22, 16.33 cfs; 5/25, 20.32 cfs; 5/30, 19.68 cfs; 6/1, 19.37 cfs; 6/7, 22.27 cfs; 6/12, 21.28 cfs; 6/14, 21.61 cfs; 6/16, 21.28 cfs; 6/19, 20 cfs; 6/21, 20.32 cfs; 6/26, 19.68 cfs; 6/28, 20.64 cfs; 6/30, 20 cfs; 7/5, 18.13 cfs; 7/7, 11.1 cfs; 7/10, 11.87 cfs; 7/12, 13.21 cfs; 7/14, 8.89 cfs; 7/17, 9.13 cfs; 7/19, 7.08 cfs; 7/21, 10.1 cfs; 7/24, 7.52 cfs; 7/26, 9.37 cfs; 7/28, 9.61 cfs; 7/31, 6.29 cfs; 8/2, 7.97 cfs; 8/4, 9.37 cfs; 8/7, 8.43 cfs; 8/9, 5.83 cfs; 8/11, 4.31 cfs; 8/12, 6.87 cfs; 8/14, 5.83 cfs; 8/17, 7.97 cfs; 8/22, 6.66 cfs; 8/29, 5.05 cfs; 9/5, 8.46 cfs; 9/8, 5.05 cfs; 9/19, 2 cfs; 9/25, 7.08 cfs
2001	5/8, 4.67 cfs; 5/11, 9.85 cfs; 5/15, 14.6 cfs; 5/22, 17.5 cfs; 5/24, 20.3 cfs; 5/29, 19.4 cfs; 6/1, 20 cfs; 6/5, 18.1 cfs; 6/8, 17.5 cfs; 6/11, 17.5 cfs; 6/13, 19.4 cfs; 6/18, 5.05 cfs; 6/19, 8.66 cfs; 6/20, 16.3 cfs; 6/21, 15.2 cfs; 6/22, 17.8 cfs; 6/23, 18.4 cfs; 6/24, 16.9 cfs; 6/25, 16.9 cfs; 6/26, 16.3 cfs; 6/27, 16.9 cfs; 6/28, 15.7 cfs; 7/2, 5.43 cfs; 7/3, 7.08 cfs; 7/4, 7.52 cfs; 7/5, 8.43 cfs; 7/8, 6.45 cfs; 7/9, 7.97 cfs; 7/11, 10.1 cfs; 7/12, 6.66 cfs; 7/13, 7.3 cfs; 7/14, 7.97 cfs; 7/16, 11.4 cfs; 7/17, 6.24 cfs; 7/18, 7.08 cfs; 7/19, 8.43 cfs; 7/20, 8.89 cfs; 7/21, 7.08 cfs; 7/22, 11.9 cfs; 7/23, 8.89 cfs; 7/24, 17.5 cfs; 7/26, 12.1 cfs; 7/27, 10.3 cfs; 7/29, 10.1 cfs; 7/30, 6.66 cfs; 7/31, 8.66 cfs; 8/1, 6.87 cfs; 8/2, 6.03 cfs; 8/3, 8.43 cfs; 8/7, 9.37 cfs; 8/8, 10.1 cfs; 8/9, 7.08 cfs; 8/10, 10.8 cfs; 8/11, 8.89 cfs; 8/12, 16.9 cfs; 8/13, 9.37 cfs; 8/14, 7.08 cfs; 8/15, 10 cfs; 8/16, 8.43 cfs; 8/17, 13.2 cfs; 8/18, 3.95 cfs; 8/19, 4.67 cfs; 8/20, 7.08 cfs; 8/22, 15.7 cfs; 8/24, 8.43 cfs; 8/27, 6.45 cfs;
	8/28, 8.89 cfs; 8/29, 8.89 cfs; 8/31, 13.5 cfs; 9/4, 3.95 cfs; 9/5, 4.67 cfs; 9/6, 10.8 cfs; 9/10, 12.4 cfs; 9/12, 10.3 cfs; 9/14, 9.37 cfs; 9/17, 0.5 cfs; 9/18, 3.95 cfs; 9/19, 4.67 cfs; 9/21, 3.95 cfs; 9/24, 4.67 cfs; 10/1, 4.31 cfs; 10/8, 3.78 cfs; 10/17, 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

DUTCH FLAT / TAYLOR DITCH

USGS ID 43108 H8

DIVERSION DESCRIPTION

Manually operated sliding steel gates in concrete headwall

DIVERSION LOCATION

Source: Big Popo Agie River
Dutch Flat - NE 1/4 NE 1/4 Section 25, Township 33 N, Range 100 W
Taylor - NE 1/4 NE 1/4 Section 20, Township 33, Range 99 W

CONVEYANCE DESCRIPTION

Open dirt ditch approximately 12 miles long serves approximately 20 major users irrigating approximately 3300 acres. Upper 2 1/2 miles is considered to be Dutch Flat Ditch, Lower 9 1/2 is known as Taylor Ditch. Estimated capacity of Dutch Flat ditch is 50 c.f.s., Taylor ditch is approximately 38 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
1885	Terr.	Irr.,Dom.,Stk.	545.00	18.52		18.52	
3/09/1907	1694E	Irr.,Dom.,Stk.	2273.34	32.46		50.98	
4/14/1915	3179E	Irr.	10.00	0.14		51.12	
4/03/1950	5531E	Irr.,Dom.,Stk.	354.00	5.05		56.17	
8/18/1950	5613E	Irr., Stk.	60.50	0.86		57.03	
5/10/1954	5731E	Irr.	33.50	0.48		57.51	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with time of year, 30% at peak

IRRIGATION PRACTICES

Conventional flood irrigation practices, some gated pipe, wild flooding of native pastures.

CROP TYPES / CONSUMPTIVE USE

Native pastures, native hay, some alfalfa hay, occasional small grain, lawns and gardens.

RETURN FLOWS

20% to Big Popo Agie River directly and via Smith Creek, 80% to Little Popo Agie directly and via Robinson Gulch some returns intercepted by Cemetary ditch.

OTHER OPERATIONAL INFORMATION

In addition to serving farm/ranch land, ditch also serves Lander Golf Course.

CONTACT INFORMATION

Bill Hamilton
Lyons Valley Road
Lander, WY
(307)332-2776

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	
1984	6/4, 50 cfs; 7/24, 111 cfs
1985	8/7, 8.98 cfs
1986	4/24, Off; 4/30, Off; 5/23, 16.5 cfs; 6/12, 52 cfs; 6/27, 49 cfs; 7/11, 50 cfs; 8/6, 65 cfs; 8/20, 45 cfs
1995	9/8, 20.16 cfs; 9/11, 20.16 cfs; 9/13, 11.19 cfs
1996	4/11, Off; 4/19, Off; 5/3, Off; 5/8, Off; 5/13, 30.47 cfs; 5/17, 1.83 cfs; 5/20, 35.67 cfs; 6/7, 35 cfs; 7/8, 37.29 cfs; 7/16, 40.62 cfs; 7/18, 40.62 cfs; 7/22, 29.47 cfs; 8/13, 8.87 cfs; 8/16, 17.22 cfs; 8/19, 20.16 cfs; 8/22, 20.16 cfs; 8/30, 20.16 cfs; 9/10, 10.51 cfs; 9/24, 20.16 cfs; 10/3, 19.3 cfs
1997	6/6, 44.62 cfs; 6/30, 44.04 cfs; 7/18, 32.52 cfs; 8/7, 46.39 cfs; 8/15, 37.3 cfs; 8/26, 36.2 cfs; 9/9, 29 cfs; 9/17, 32 cfs; 9/25, 36.2 cfs
1998	5/12, 4.63 cfs; 5/22, 10.51 cfs; 6/5, 42.89 cfs; 6/10, 38.39 cfs; 6/15, 39.5 cfs; 6/22, 39.5 cfs; 6/25, 30.47 cfs; 6/29, 39.5 cfs; 7/2, 28.6 cfs; 7/6, 37.29 cfs; 7/8, 40.06 cfs; 7/13, 30.98 cfs; 7/16, 47.57 cfs; 7/20, 35.14 cfs; 7/23, 34.61 cfs; 7/27, 38.94 cfs; 7/30, 37.84 cfs; 8/3, 29.97 cfs; 8/6, 25.8 cfs; 8/10, 26.9 cfs; 8/13, 28.97 cfs; 8/17, 24.65 cfs; 8/20, 33.03 cfs; 8/24, 24.65 cfs; 8/27, 29.97 cfs; 8/31, 20.16 cfs; 9/3, 16.82 cfs; 9/8, 17.22 cfs; 9/10, 16.82 cfs; 9/14, 18.04 cfs; 9/17, 18.04 cfs; 9/21, 19.3 cfs; 9/24, 19.3 cfs; 9/28, 18.04 cfs; 9/30, 17.22 cfs
1999	5/25, Off; 6/3, 24.78 cfs; 6/7, 38.39 cfs; 6/12, 37.29 cfs; 6/16, 41.18 cfs; 6/21, 36.75 cfs; 6/28, 37.84 cfs; 7/6, 36.21 cfs; 7/12, 29.47 cfs; 7/19, 36.21 cfs; 7/22, 39.5 cfs; 7/26, 30.98 cfs; 7/29, 26.54 cfs; 8/3, 24.18 cfs; 8/6, 40.62 cfs; 8/10, 30.98 cfs; 8/13, 32 cfs; 8/17, 26.06 cfs; 8/19, 23.72 cfs; 8/20, 17.2 cfs; 8/23, 18.04 cfs; 8/26, 16.82 cfs; 8/30, 15.62 cfs; 9/7, 19.73 cfs; 9/14, 12.61 cfs; 9/23, 14.08 cfs; 9/27, 10.85 cfs
2000	5/10, 23.3 cfs; 5/15, 26 cfs; 5/17, 39.5 cfs; 5/22, 47.57 cfs; 5/25, 41.18 cfs; 5/30, 36.75 cfs; 6/1, 34.08 cfs; 6/5, 37.84 cfs; 6/7, 47.57 cfs; 6/9, 45.8 cfs; 6/12, 41.75 cfs; 6/16, 42.89 cfs; 6/19, 38.39 cfs; 6/23, 36.75 cfs; 6/28, 35.67 cfs; 6/30, 34.08 cfs; 7/3, 32.52 cfs; 7/5, 29.47 cfs; 7/7, 25.58 cfs; 7/12, 26.06 cfs; 7/14, 23.72 cfs; 7/19, 21.47 cfs; 7/21, 13.34 cfs; 7/24, 12.97 cfs; 7/26, 9.89 cfs; 7/28, 13.39 cfs; 7/31, 12.61 cfs; 8/2, 12.97 cfs; 8/7, 12.61 cfs; 8/9, 12.25 cfs; 8/11, 11.19 cfs; 8/14, 12.25 cfs; 8/17, 12.61 cfs; 8/22, 11.19 cfs; 8/29, 9.19 cfs; 9/1, 22.4 cfs; 9/5, 15.6 cfs; 9/8, 11 cfs; 9/19, 7.34 cfs; 9/25, 14.85 cfs
2001	5/8, 26.1 cfs; 5/11, 38.4 cfs; 5/15, 48.2 cfs; 5/22, 38.4 cfs; 5/24, 47.6 cfs; 5/29, 42.9 cfs; 6/1, 42.3 cfs; 6/5, 40.6 cfs; 6/8, 41.8 cfs; 6/11, 44 cfs; 6/13, 41.8 cfs; 6/18, 26.1 cfs; 6/19, 22.4 cfs; 6/20, 23.7 cfs; 6/21, 25.1 cfs; 6/22, 25.1 cfs; 6/23, 24.6 cfs; 6/24, 26.5 cfs; 6/25, 30 cfs; 6/26, 21 cfs; 7/3, 23.7 cfs; 7/4, 21 cfs; 7/5, 21 cfs; 7/6, 20.2 cfs; 7/9, 18.9 cfs; 7/10, 14.1 cfs; 7/11, 15.2 cfs; 7/12, 13.7 cfs; 7/13, 14.1 cfs; 7/16, 16.8 cfs; 7/18, 14.1 cfs; 7/19, 10.5 cfs; 7/20, 9.84 cfs; 7/23, 10.5 cfs; 7/24, 10.2 cfs; 7/27, 14.1 cfs; 7/30, 11.9 cfs; 8/1, 0.48 cfs; 8/2, 9.84 cfs; 8/3, 9.51 cfs; 8/7, 9.84 cfs; 8/9, 10.2 cfs; 8/10, 10.8 cfs; 8/11, 11.9 cfs; 8/13, 10.5 cfs; 8/15, 11.2 cfs; 8/17, 10.5 cfs; 8/20, 11.2 cfs; 8/21, 9.84 cfs; 8/22, 10.2 cfs; 8/24, 8.87 cfs; 8/27, 7.94 cfs; 8/28, 5.13 cfs; 8/29, 5.13 cfs; 8/31, 6.76 cfs; 9/4, 5.13 cfs; 9/5, 4 cfs; 9/6, 4.63 cfs; 9/10, 4.63 cfs; 9/12, 4.63 cfs; 9/14, 4.63 cfs; 9/17, 7.94 cfs; 9/18, 7.64 cfs; 9/19, 6.2 cfs; 9/21, 6.2 cfs; 9/22, 5.13 cfs; 9/24, 5.13 cfs;
	10/1, 4.88 cfs; 10/8, 4 cfs; 10/17, 4.63 cfs

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

GAYLOR AND WARNOCK DITCH

DIVERSION DESCRIPTION

Two 3' sliding steel gates with screw type gate in concrete headwall.

DIVERSION LOCATION

Source: Big or Middle Fork Popo Agie River
S 67° E, 1020 feet from the quarter corner between Sections 8 and 9, Township 32N, Range 100W, and is in the NW 1/4 SW 1/4 of Section 9.

CONVEYANCE DESCRIPTION

Open dirt ditch 6 miles long with 3 major laterals adding another 3 1/2 miles of ditch. Approximately 1000 feet of fluming across rock outcrops, Sheep Canyon Creek, and Hornecker Creek. Delivers water to 38 users on approximately 1150 acres. Ditch capacity ~ 25 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
3/30/1891	20	Irr.	15.00	0.22		0.22	
8/24/1901	742E	Irr.,Dom.	647.00	9.22		9.44	
12/27/1902	962E	Irr.,Dom.	252.90	3.55		12.99	
9/01/1905	1442E	Irr.	117.00	1.67		14.66	
2/21/1912	2580E	Irr.	56.00	0.80		15.46	
4/16/1912	2599E	Irr.	15.00	0.21		15.67	
2/11/1916	3572E	Irr.	7.00	0.10		15.77	
5/02/1916	3599E	Irr.	6.00	0.09		15.86	
9/19/1918	3943E	Irr.	5.45	0.07		15.93	
5/01/1919	4001E	Irr.	15.00	0.21		16.14	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with time of year; estimated 30-35% during peak.

IRRIGATION PRACTICES

Conventional flood irrigation practices enhanced by some concrete lining, buried pipe, gated pipe and sprinklers.

CROP TYPES / CONSUMPTIVE USE

Native hay, alfalfa hay, occasional small grains, pasture, lawns and gardens.

RETURN FLOWS

Some to Sheep Canyon Creek, some to Hornecker Creek, some to Thompson Gulch, some to Sandstone ditch and some to Squaw Creek.

OTHER OPERATIONAL INFORMATION

Operated by formal ditch company, serves heavily subdivided rural areas as well as a few larger ranches.

CONTACT INFORMATION

Gaylor and Warnock Ditch Company (Don Strube)
Riverton, WY
(307)856-6020

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	
1984	6/4, 25 cfs; 7/24, 35.5 cfs
1985	5/2, 30.1 cfs; 5/8, 12 cfs; 5/12, 18.1 cfs; 5/14, 18.1 cfs; 5/16, 18.1 cfs; 5/20, 27.4 cfs; 5/23, 35.5 cfs; 5/29, 32.8 cfs; 5/30, 32.8 cfs; 6/4, 27.6 cfs; 6/7, 32.8 cfs; 6/8, 32.8 cfs; 6/14, 27.6 cfs; 6/18, 27.6 cfs; 6/20, 25.1 cfs; 6/24, 25.1 cfs; 7/2, 26.3 cfs; 7/15, 17.7 cfs; 8/1, 14.15 cfs; 8/7, 7.17 cfs; 8/14, 4.05 cfs; 8/19, 3.32 cfs; 8/21, 2.86 cfs; 8/30, 2.42 cfs; 9/9, 2.86 cfs
1986	4/24, Off; 4/30, Off; 5/21, 2.37 cfs; 5/23, 3.08 cfs; 5/28, 22.6 cfs; 6/8, 32.79 cfs; 6/17, 27.55 cfs; 6/18, 32.8 cfs; 6/27, 35.5 cfs; 7/11, 30.6 cfs; 7/16, 23.8 cfs; 7/20, 7.81 cfs; 7/21, 22.6 cfs; 8/1, 24.3 cfs; 8/6, 21.1 cfs; 8/20, 17.5 cfs
1995	9/8, 6.71 cfs; 9/11, 7.17 cfs; 9/13, 4.02 cfs
1996	4/11, Off; 4/19, Off; 5/3, Off; 5/8, Off; 5/13, 12.38 cfs; 5/15, 18.1 cfs; 5/17, 19.65 cfs; 5/22, 21.24 cfs; 5/24, 22.17 cfs; 5/28, 11.26 cfs; 6/7, 14.13 cfs; 6/12, 31.45 cfs; 6/17, 31.45 cfs; 6/26, 25.05 cfs; 7/2, 26.54 cfs; 7/8, 27.55 cfs; 7/10, 24.08 cfs; 7/12, 18.32 cfs; 7/16, 18.1 cfs; 7/18, 18.98 cfs; 7/22, 21.94 cfs; 7/23, 20.1 cfs; 8/1, 24.56 cfs; 8/6, 16.38 cfs; 8/12, 10.71 cfs; 8/13, 10.53 cfs; 8/19, 6.86 cfs; 8/22, 7.33 cfs; 8/27, 7.33 cfs; 8/30, 7.33 cfs; 9/6, 6.26 cfs; 9/10, 5.11 cfs; 9/24, 5.39 cfs; 10/3, 4.05 cfs
1997	5/14, 10.89 cfs; 5/21, 16.17 cfs; 5/22, 20.1 cfs; 5/27, 22.88 cfs; 5/29, 23.36 cfs; 6/3, 21.7 cfs; 6/6, 20.55 cfs; 6/9, 23.6 cfs; 6/11, 23.6 cfs; 6/17, 21.7 cfs; 6/25, 23.84 cfs; 6/30, 22.17 cfs; 7/8, 22.17 cfs; 7/18, 24.08 cfs; 7/31, 21.01 cfs; 8/7, 24.08 cfs; 8/15, 20.32 cfs; 8/26, 19.9 cfs; 9/9, 12.8 cfs; 9/17, 15.1 cfs; 9/25, 10.5 cfs
1998	
1999	5/25, Off; 6/5, Off; 6/7, Off; 6/14, Off; 6/16, 12.57 cfs; 6/21, 17.23 cfs; 6/28, 22.17 cfs; 7/6, 22.64 cfs; 7/12, 21.47 cfs; 7/19, 19.2 cfs; 7/22, 22.17 cfs; 7/26, 25.79 cfs; 7/29, 25.3 cfs; 8/3, 24.6 cfs; 8/6, 25.05 cfs; 8/10, 21.94 cfs; 8/13, 21.7 cfs; 8/17, 19.42 cfs; 8/19, 18.1 cfs; 8/20, 17.66 cfs; 8/23, 17.23 cfs; 8/26, 15.97 cfs; 8/31, 20.32 cfs; 9/7, 12.95 cfs; 9/14, 9.13 cfs; 9/27, 8.46 cfs
2000	5/10, 11.1 cfs; 5/15, 20.3 cfs; 5/17, 25.34 cfs; 5/22, 25.79 cfs; 5/25, 26.29 cfs; 5/30, 24.56 cfs; 6/1, 24.81 cfs; 6/5, 29.81 cfs; 6/7, 26.34 cfs; 6/9, 27.04 cfs; 6/12, 27.55 cfs; 6/14, 28.06 cfs; 6/16, 26.79 cfs; 6/19, 25.54 cfs; 6/21, 23.84 cfs; 6/23, 25.54 cfs; 6/26, 24.81 cfs; 6/28, 25.79 cfs; 6/30, 25.03 cfs; 7/3, 25.05 cfs; 7/5, 22.64 cfs; 7/7, 24.81 cfs; 7/10, 25.03 cfs; 7/12, 24.56 cfs; 7/14, 22.17 cfs; 7/17, 21.24 cfs; 7/19, 20.32 cfs; 7/21, 16.38 cfs; 7/24, 6.36 cfs; 7/26, 7.02 cfs; 7/28, 7.17 cfs; 7/31, 6.56 cfs; 8/2, 5.68 cfs; 8/4, 6.71 cfs; 8/7, 6.86 cfs; 8/9, 7.33 cfs; 8/12, 5.68 cfs; 8/14, 5.53 cfs; 8/22, 5.11 cfs; 8/29, 4.05 cfs; 9/1, 10.17 cfs; 9/5, 8.13 cfs; 9/8, 6.26 cfs; 9/19, 2.86 cfs; 9/25, 5.4 cfs
2001	5/8, 12 cfs; 5/11, 27.6 cfs; 5/15, 27.6 cfs; 5/18, 22.6 cfs; 5/22, 20.3 cfs; 5/24, 21.7 cfs; 5/29, 22.6 cfs; 6/1, 21.9 cfs; 6/5, 19.9 cfs; 6/8, 20.6 cfs; 6/11, 20.8 cfs; 6/13, 19.9 cfs; 6/18, 17 cfs; 6/19, 12 cfs; 6/20, 10.2 cfs; 6/22, 11.3 cfs; 6/25, 12.4 cfs; 6/26, 15.6 cfs; 6/28, 16.6 cfs; 7/3, 13.5 cfs; 7/4, 12.6 cfs; 7/5, 12.4 cfs; 7/9, 10.9 cfs; 7/10, 9.82 cfs; 7/11, 9.65 cfs; 7/12, 9.48 cfs; 7/13, 9.13 cfs; 7/16, 10.2 cfs; 7/17, 8.13 cfs; 7/18, 7.17 cfs; 7/19, 7.12 cfs; 7/20, 6.56 cfs; 7/21, 6.26 cfs; 7/22, 3.8 cfs; 7/23, 3.8 cfs; 7/24, 2.01 cfs; 7/25, 2.01 cfs; 7/27, 2.01 cfs; 7/30, 1.28 cfs; 7/31, 1.82 cfs; 8/1, Off; 8/3, Off; 8/7, Off; 8/8, Off; 8/9, 1.04 cfs; 8/10, 1.12 cfs; 8/11, 1.12 cfs; 8/12, 2.32 cfs; 8/13, 1.46 cfs; 8/15, 1.73 cfs; 8/17, 1.63 cfs; 8/19, 0.9 cfs; 8/20, Off; 8/22, Off; 8/24, Off; 8/27, Off; 8/29, Off; 8/31, Off; 9/4, Off; 9/6, Off; 9/10, Off; 9/12, Off; 9/14, Off; 9/18, Off; 9/21, Off; 9/24, Off; 10/1, Off; 10/8, Off; 10/17, 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

NICOL TABLE MOUNTAIN DITCH

USGS ID 42108 G7, 43109 E6 USGS Name Mountain Arter SE, Dubois

DIVERSION DESCRIPTION

Boulder diversion dam, manually operated sliding gates in concrete headwall, with spill gate 400' down ditch.

DIVERSION LOCATION

Source: Big or Middle Popo Agie River
SE 1/4 SE 1/4 Section 4, Township 32 N, Range 100 W, 6th PM

CONVEYANCE DESCRIPTION

Open dirt ditch 5.7 miles long, then splitting into two main laterals 4.6 and 6.5 miles long respectively, serving a total of approximately 3350 acres. A 550 foot section of the main ditch is concrete lined. Ditch traverses extremely rough country, thus has numerous checks, dividers, chutes, etc., with approximately 45 individual turnouts. Ditch capacity ~ 60 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
3/01/1882	Terr.	Irr.,Stk.	45.00	0.71		0.71	
5/04/1885	Terr.	Irr.,Stk.,Dom.	272.00	4.21		4.92	
2/01/1902	778E	Irr.	1128.00	16.08		21.00	
2/10/1903	1108E	Irr.	404.50	5.77		26.77	
3/15/1904	1176E	Irr.	284.00	4.04		30.81	
12/18/1907	1827E	Irr.	274.50	3.91		34.72	
1/27/1908	1829E	Irr.	339.00	4.84		39.56	
10/08/1908	1966E	Irr.	224.00	3.20		42.76	
9/29/1910	2302E	Irr.	20.00	0.28		43.04	
9/06/1912	2714E	Irr.	146.00	2.08		45.12	
7/11/1921	4256E	Irr.	20.00	0.28		45.40	
2/13/1926	4564E	Irr.	40.00	0.57		45.97	
2/16/1926	4547E	Irr.	12.50	0.18		46.15	
12/19/1955	5838E	Irr.	39.00	0.56		46.71	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with time of year, estimated 40-45% at peak

IRRIGATION PRACTICES

Conventional flood irrigation practices, with some buried pipe, gated pipe, and sprinklers.

CROP TYPES / CONSUMPTIVE USE

Native hay, alfalfa hay, occasional small grain, and pasture.

RETURN FLOWS

10% directly to Big Popo Agie River, 90% to Little Popo Agie River via liams Creek, Coal Gulch, and Deadman Gulch.

OTHER OPERATIONAL INFORMATION

All three branches managed by separate formal ditch companies, ie. Nicol-Table Mtn. Ditch Company, North Lateral Ditch Co., and Parker-McBride Ditch Co.

CONTACT INFORMATION

Howard Killebrew
Lander, WY
(307)332-3044

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	
1984	
1985	5/2, 50.8 cfs; 5/8, 36.5 cfs; 5/12, 36.5 cfs; 5/23, 50.8 cfs; 5/25, 50.8 cfs; 5/29, 56 cfs; 6/4, 56 cfs; 6/7, 56 cfs; 6/14, 64 cfs; 6/20, 56 cfs; 6/24, 61.3 cfs; 7/2, 60.2 cfs; 7/8, 59.7 cfs; 7/15, 50.8 cfs; 8/1, 36.5 cfs; 8/7, 24.4 cfs; 8/16, Off; 8/19, 15.5 cfs; 8/21, 11.1 cfs; 9/9, 7.94 cfs
1986	5/28, 50.78 cfs; 6/8, 56.98 cfs; 6/12, 63.5 cfs; 6/18, 61.3 cfs; 6/27, 61.3 cfs; 7/11, 57 cfs; 7/21, 58.6 cfs; 8/20, 57.5 cfs
1995	9/8, 14.21 cfs; 9/11, 27.13 cfs; 9/13, 11.78 cfs
1996	4/11, Off; 4/19, Off; 5/3, Off; 5/8, Off; 5/13, Off; 5/15, Off; 5/17, 35.13 cfs; 5/23, 30.83 cfs; 5/28, 32.1 cfs; 6/7, 36.47 cfs; 6/12, 54.37 cfs; 6/17, 69.61 cfs; 6/26, 66.79 cfs; 7/2, 68.47 cfs; 7/8, 67.91 cfs; 7/10, 65.67 cfs; 7/12, 64.01 cfs; 7/16, 59.11 cfs; 7/18, 57.51 cfs; 7/22, 48.27 cfs; 7/23, 54.47 cfs; 8/1, 42.45 cfs; 8/6, 25.29 cfs; 8/13, 30.55 cfs; 8/16, 31.67 cfs; 8/19, 11.9 cfs; 8/22, 12.35 cfs; 8/30, 11 cfs; 9/6, 9.52 cfs; 9/10, 6.5 cfs; 9/24, 8.8 cfs; 10/3, Off
1997	5/14, 42.3 cfs; 5/22, 53.5 cfs; 5/27, 52.2 cfs; 5/29, 53.5 cfs; 6/3, 56 cfs; 6/6, 59.6 cfs; 6/11, 56.5 cfs; 6/18, 54.4 cfs; 6/25, 53.5 cfs; 6/30, 71.6 cfs; 7/8, 67.6 cfs; 7/18, 56.8 cfs; 7/31, 51.4 cfs; 8/7, 60 cfs; 8/15, 44.2 cfs; 8/26, 40.6 cfs; 9/9, 33.4 cfs; 9/17, 36 cfs; 9/25, 42.3 cfs
1998	
1999	5/25, Off; 6/5, 24.77 cfs; 6/7, 23.62 cfs; 6/14, 30.41 cfs; 6/21, 40.57 cfs; 6/28, 51.29 cfs; 7/6, 49.77 cfs; 7/12, 49.27 cfs; 7/19, 44.36 cfs; 7/22, 51.29 cfs; 7/26, 47.78 cfs; 7/29, 44.36 cfs; 8/3, 42.93 cfs; 8/6, 48.77 cfs; 8/10, 36.47 cfs; 8/13, 39.65 cfs; 8/17, 33.82 cfs; 8/19, 32.1 cfs; 8/20, 32.1 cfs; 8/23, 27.94 cfs; 8/26, 27.94 cfs; 8/31, 32.1 cfs; 9/7, 32.1 cfs; 9/14, 23.62 cfs; 9/27, 24 cfs
2000	5/10, 27.9 cfs; 5/15, 23.6 cfs; 5/17, 28.75 cfs; 5/22, 36.02 cfs; 5/25, 45.33 cfs; 5/30, 62.2 cfs; 6/1, 60.4 cfs; 6/5, 53.9 cfs; 6/7, 57.8 cfs; 6/9, 55.2 cfs; 6/12, 59.6 cfs; 6/14, 58.2 cfs; 6/16, 57.51 cfs; 6/19, 50.27 cfs; 6/21, 47.28 cfs; 6/23, 59.11 cfs; 6/28, 56.98 cfs; 6/30, 54.37 cfs; 7/3, 53.33 cfs; 7/5, 44.84 cfs; 7/7, 37.82 cfs; 7/10, 39.19 cfs; 7/14, 35.13 cfs; 7/17, 33.82 cfs; 7/19, 33.1 cfs; 7/21, 28.35 cfs; 7/24, 27.13 cfs; 7/26, 19.93 cfs; 7/31, 48.87 cfs; 8/2, 17.15 cfs; 8/4, 16.48 cfs; 8/9, 16.15 cfs; 8/11, 10.63 cfs; 8/12, 13.28 cfs; 8/14, 12.07 cfs; 8/17, 10.07 cfs; 8/22, 9.52 cfs; 8/29, 7.95 cfs; 9/1, 15.545 cfs; 9/5, 24 cfs; 9/8, 13.6 cfs; 9/19, 10.63 cfs; 9/25, 16.81 cfs
2001	5/8, 20.5 cfs; 5/11, 41.4 cfs; 5/15, 56.5 cfs; 5/18, 57.5 cfs; 5/22, 50.3 cfs; 5/24, 58.6 cfs; 5/29, 58.4 cfs; 6/1, 59.1 cfs; 6/5, 47.9 cfs; 6/8, 60.7 cfs; 6/11, 64 cfs; 6/13, 62.5 cfs; 6/18, 47.2 cfs; 6/19, 45.8 cfs; 6/20, 39.2 cfs; 6/21, 33.1 cfs; 6/22, 36.7 cfs; 6/23, 37.6 cfs; 6/24, 37.6 cfs; 6/25, 39 cfs; 6/26, 41.8 cfs; 6/27, 44.8 cfs; 6/28, 57.5 cfs; 7/3, 40.9 cfs; 7/4, 38.5 cfs; 7/5, 38.5 cfs; 7/6, 34.9 cfs; 7/7, 36.7 cfs; 7/8, 30.2 cfs; 7/9, 36.7 cfs; 7/10, 30.2 cfs; 7/11, 35.8 cfs; 7/12, 28.8 cfs; 7/13, 31.9 cfs; 7/14, 27.8 cfs; 7/16, 26.6 cfs; 7/18, 23.1 cfs; 7/19, 19 cfs; 7/20, 14.2 cfs; 7/21, 14.2 cfs; 7/22, 11 cfs; 7/23, 7.44 cfs; 7/24, 5.2 cfs; 7/25, 4.94 cfs; 7/27, 2.86 cfs; 7/30, 3.12 cfs; 8/1, 3.12 cfs; 8/2, 2.63 cfs; 8/3, 2.5 cfs; 8/7, 1.88 cfs; 8/9, 2 cfs; 8/10, 2.86 cfs; 8/11, 2.86 cfs; 8/12, 3.9 cfs; 8/13, 3.9 cfs; 8/15, 4.16 cfs; 8/17, 3.9 cfs; 8/20, 3.12 cfs; 8/22, 4.16 cfs; 8/24, 3.9 cfs; 8/27, 3.64 cfs; 8/28, 2.36 cfs; 8/29, 1.4 cfs; 8/30, 2.36 cfs; 8/31, 2.12 cfs; 9/4, 5.76 cfs; 9/5, 2.6 cfs;
	9/6, 2.12 cfs; 9/10, 1.16 cfs; 9/12, 1.16 cfs; 9/14, 1.16 cfs; 9/18, 6.32 cfs; 9/21, 7.16 cfs; 9/22, 3.9 cfs; 9/24, 4.16 cfs; 10/1, 3.64 cfs; 10/8, 2.6 cfs; 10/17, 2.6 cfs

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

SANDSTONE DITCH

MOUNT ARTER SE, LANDER

DIVERSION DESCRIPTION

One 3' screwtype sliding steel gate in concrete headwall (Hornecker Creek), One 16" screwtype sliding steel headgate in rock and boulder headwall (Middle Fork Popo Agie).

DIVERSION LOCATION

Source: Hornecker Creek and Middle Popo Agie River
Hornecker Creek diversion - N 33° W, 1650' from the SE corner Section 26, Township 33N, Range 100W.
Big Popo Agie diversion - S 45° W, 1600' from the SE corner Section 26, Township 33N, Range 100W.

CONVEYANCE DESCRIPTION

Open dirt ditch approximately 4 miles long serving 25 users and approximately 330 acres. Ditch capacity ~ 15 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
1888	Terr.	Dom.,Irr.,Stk.	60.00	0.86		0.86	
1889	Terr.		105.50	1.63		2.49	
2/13/1902	789E	Irr.	12.50	0.17		2.66	
2/18/1902	784E	Irr.	76.00	1.08		3.74	
7/08/1902	926E	Irr.	20.00	0.28		4.02	
5/25/1903	1050E	Irr.	48.00	0.68		4.70	
3/24/1910	2309E	Irr.	46.00	0.66		5.36	
8/12/1919	4025E	Dom.,Irr.,Stk.	1.00	0.01		5.37	
9/21/1923	4386E	Irr.	12.40	0.17		5.54	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with the time of year; estimated 35-40% at peak.

IRRIGATION PRACTICES

Conventional flood irrigation practices, some gated pipe, several pumps.

CROP TYPES / CONSUMPTIVE USE

Native hay, alfalfa hay, pasture, occasional small grains, lawns and gardens.

RETURN FLOWS

Some to Hornecker Creek, some to Middle Fork Popo Agie, some to Squaw Creek.

OTHER OPERATIONAL INFORMATION

Managed by ditch company, heavily subdivided area, numerous small parcels.

CONTACT INFORMATION

Gerald McDonnel
Lander, WY
(307) 332-3430

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

DESCRIPTION AND OPERATION MEMORANDUM

SNAVELY, GRANT YOUNG, JONES, WARNOCK AND REBIDOW DITCH

DIVERSION DESCRIPTION

One 3' screw type sliding steel gate in concrete headwall

DIVERSION LOCATION

Source: Big or Middle Popo Agie

N 18° 30' W, 361' from the meander corner on the township line between Section 3 of Township 33N and Section 34 of Township 34N, Range 99W.

CONVEYANCE DESCRIPTION

Open dirt ditch approximately 6 miles long including 3 major laterals, serving approximately 30 users on 2150 acres. History of wash-out problems at several locations. Ditch capacity ~ 18 c.f.s. Ditch route is a combination of the former locations of 3 ditches (the Grant Young, the Snavely, and the Jones, Warnock and Rebidow).

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
1877	Terr.	Irr.	218.00	3.46		3.46	
Spring 1882	Terr.	Irr.,Stk.	155.00	2.24		5.70	
1887	Terr.	Irr.	85.00	1.21		6.91	
1889	Terr.	Irr.	40.00	0.57		7.48	
9/05/1903	5580	Irr.	75.00	1.07		8.55	
2/18/1904	1169E	Irr.	185.00	2.64			
4/15/1905	1649E	Irr.	100.00	1.42			
11/04/1907	1812E	Irr.	185.00	2.64			
4/15/1909	2123E	Irr.,Dom.	143.00	2.04		10.59	
1/24/1925	4440E	Irr.	116.23	1.66		12.25	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with time of year; estimated 40% at peak.

IRRIGATION PRACTICES

Conventional flood irrigation practices, some ditch lining, considerable use of pipe and some sprinklers.

CROP TYPES / CONSUMPTIVE USE

Alfalfa hay, native hay, small grains, pasture, occasional corn, lawns and gardens.

RETURN FLOWS

Minimal; 100% to Big Popo Agie River.

OTHER OPERATIONAL INFORMATION

Heavily subdivided area, numerous parcels.

CONTACT INFORMATION

Howard Killebrew
Lander, WY
(307)332-3044

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	
1984	6/26, 10.4 cfs
1985	7/10, 12 cfs
1986	
1995	9/8, 3 cfs; 9/11, 3 cfs; 9/13, 3 cfs
1996	4/11, Off; 4/19, Off; 5/14, 15 cfs; 5/16, 18 cfs; 5/20, 18 cfs
1997	
1998	
1999	5/25, 1.63 cfs; 6/3, 5.51 cfs; 6/7, 6.98 cfs; 6/12, 6.07 cfs; 6/16, 6.91 cfs; 6/21, 7.05 cfs; 6/28, 8.13 cfs; 7/6, 16.59 cfs; 7/12, 2.75 cfs; 7/19, 2.86 cfs; 7/22, 7.17 cfs; 7/26, 5.12 cfs; 7/29, 3.76 cfs; 8/3, 4.04 cfs; 8/6, 5.23 cfs; 8/10, 4.25 cfs; 8/13, 4.11 cfs; 8/17, 4.39 cfs; 8/20, 6 cfs; 8/23, 6.7 cfs; 8/26, 6.84 cfs; 8/30, 6.84 cfs; 9/3, 6.33 cfs; 9/7, 5.25 cfs; 9/14, 4.32 cfs; 9/27, 5.49 cfs
2000	5/24, 1.06 cfs; 5/25, 7.1 cfs; 5/30, 8.8 cfs; 6/1, 8 cfs; 6/5, 7.8 cfs; 6/9, 7.7 cfs; 6/12, 7.6 cfs; 6/14, 7 cfs; 6/16, 7.7 cfs; 6/23, 7.5 cfs; 6/26, 6.7 cfs; 6/28, 6.5 cfs; 6/30, 6.9 cfs; 7/3, 8 cfs; 7/5, 7.5 cfs; 7/10, 9 cfs; 7/12, 9.2 cfs; 7/17, 10 cfs; 7/21, 10 cfs; 7/24, 8.8 cfs; 7/28, 10 cfs; 8/2, 10 cfs; 8/4, 9 cfs; 8/7, 8.8 cfs; 8/9, 10 cfs; 8/11, 9.6 cfs; 8/17, 9.6 cfs; 8/22, 9.5 cfs; 8/29, 8.8 cfs; 9/5, 9.6 cfs; 9/19, 9.6 cfs; 9/25, 9.6 cfs
2001	5/8, 2 cfs; 5/22, 12.4 cfs; 5/24, 13.6 cfs; 5/29, 6.25 cfs; 6/1, 6.39 cfs; 6/4, 12.9 cfs; 6/8, 15.2 cfs; 6/11, 16 cfs; 6/15, 15 cfs; 6/18, 13.8 cfs; 6/20, 10.5 cfs; 6/22, 5 cfs; 6/25, 17 cfs; 6/28, 13.3 cfs; 7/3, 10.1 cfs; 7/11, 12.9 cfs; 7/13, 12.3 cfs; 7/16, 12.6 cfs; 7/20, 9.6 cfs; 7/23, 3 cfs; 7/27, 6 cfs; 7/30, 5.5 cfs; 8/7, 2.2 cfs; 8/8, 4.46 cfs; 8/9, 4.46 cfs; 8/13, 2.2 cfs; 8/15, 1.61 cfs; 8/17, 5.48 cfs; 8/20, 2.59 cfs; 8/22, 7.91 cfs; 8/24, 2.98 cfs; 8/27, 2.3 cfs; 8/29, 2.12 cfs; 8/31, 2.4 cfs; 9/4, 1.15 cfs; 9/6, 0.88 cfs; 9/10, 0.5 cfs; 9/12, 3.19 cfs; 9/14, 2.68 cfs; 9/18, 2.88 cfs; 9/21, 1.61 cfs; 9/24, 3.08 cfs; 10/1, 2.88 cfs; 10/8, 3.29 cfs; 10/17, Stock

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.