

TRAPPER CREEK

Highline

DESCRIPTION AND OPERATION MEMORANDUM

HIGH LINE DITCH

USGS ID 44107 E7, 43108 F2, 44107 E6 USGS NAME SHELL

DIVERSION DESCRIPTION

One 4' screwtype sliding steel gate in concrete headwall with concrete wingwalls.

DIVERSION LOCATION

Source: Trapper Creek
891' South and 82' East of the NW corner of Section 1, Township 52N, Range 91W, and is in the NW 1/4 NW 1/4 Section 1.

CONVEYANCE DESCRIPTION

Open dirt and partially piped ditch approximately 5 1/4 miles long serving approximately 340 acres, ditch capacity approximately 17 c.f.s.

WYOMING WATER RIGHTS

Priority Date	Permit Number	Permit Use	Acres	Flow(cfs)	(af)	Cumulative Flow(cfs)	Comments
1/21/1898	1716	Irr.	271.00	3.02		3.02	
4/07/1906	1522E	Irr., Dom.	65.00	0.93		4.58	
10/09/1908	1962E	Irr.	55.00	0.78		5.36	
5/05/1911	2469E	Irr., Dom.	14.10	0.20		5.56	

STORAGE RIGHTS

None

ESTIMATED CANAL LOSSES

Varies with time of year; estimated 20-25% at peak.

IRRIGATION PRACTICES

Conventional flood irrigation practices enhanced by irrigation pipe and some sprinkler irrigation, small parcel irrigation.

CROP TYPES / CONSUMPTIVE USE

Alfalfa hay, small grain, pasture, occasional corn, lawns and gardens, Town of Shell.

RETURN FLOWS

Mostly to Shell Creek, some picked up by Shell Canal.

OTHER OPERATIONAL INFORMATION

CONTACT INFORMATION

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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	
1986	
1995	
1996	5/13, 4 cfs; 5/17, 4 cfs; 6/8, 5 cfs; 6/11, 5 cfs; 7/1, 5 cfs; 7/21, 6.79 cfs; 9/5, 4.75 cfs; 9/7, 4.75 cfs
1997	
1998	5/1, 5.23 cfs; 5/8, 7.76 cfs; 5/12, 10.79 cfs; 5/15, 12.43 cfs; 5/18, 14.16 cfs; 5/22, 29.46 cfs; 5/26, 9.23 cfs; 6/1, 8.19 cfs; 6/5, 11.93 cfs; 6/8, 7.48 cfs; 6/11, 7.34 cfs; 6/15, 6.79 cfs; 6/18, 6.79 cfs; 6/25, 6.39 cfs; 6/29, 6.39 cfs; 7/2, 6.12 cfs; 7/6, 12.43 cfs; 7/9, 10.16 cfs; 7/13, 9.38 cfs; 7/16, 8.43 cfs; 7/21, 4.05 cfs; 7/23, 3.94 cfs; 7/27, 4.28 cfs; 7/29, 10 cfs; 7/30, 12.43 cfs; 8/4, 7.2 cfs; 8/7, 5.11 cfs; 8/10, 7.2 cfs; 8/13, 9.23 cfs; 8/18, 5.74 cfs; 8/21, 7.81 cfs; 8/31, 9.34 cfs; 9/8, 9.2 cfs; 9/11, 9.2 cfs; 9/14, 6.39 cfs; 9/17, 6.39 cfs; 9/21, 4.51 cfs; 9/25, 10.46 cfs; 9/28, 9.06 cfs; 10/2, 6.26 cfs; 10/5, 6.51 cfs; 10/8, 6.28 cfs; 10/12, 6.51 cfs; 10/14, 5.39 cfs; 10/19, 2.95 cfs
1999	4/5, Off; 4/20, Off; 5/3, Off; 5/6, Off; 5/14, 4.63 cfs; 5/17, 4.99 cfs; 5/25, 10.95 cfs; 5/28, 3.61 cfs; 6/1, 3.5 cfs; 6/8, 7.34 cfs; 6/10, 5.74 cfs; 6/14, 4.05 cfs; 6/18, 9.69 cfs; 6/21, 9.69 cfs; 6/28, 8.34 cfs; 7/2, 13.29 cfs; 7/6, 12.94 cfs; 7/12, 11.77 cfs; 7/19, 11.77 cfs; 7/23, 11.6 cfs; 7/30, 12.1 cfs; 8/3, 11.77 cfs; 8/6, 16.52 cfs; 8/9, 16.89 cfs; 8/13, 10.79 cfs; 8/16, 10.31 cfs; 8/19, 10 cfs; 8/24, 9.38 cfs; 9/2, 10 cfs; 9/8, 11.11 cfs; 9/10, 7.2 cfs; 9/15, 6.22 cfs; 9/17, 5.88 cfs; 9/21, 5.66 cfs; 9/24, 6.33 cfs; 9/29, 6.68 cfs; 10/5, 5.36 cfs; 10/18, 3.5 cfs; 10/20, 3.39 cfs; 10/26, 3.29 cfs; 10/28, 2.78 cfs
2000	4/3, 6.65 cfs; 4/10, 6.79 cfs; 4/14, 6.52 cfs; 4/17, 6.65 cfs; 4/21, 6.65 cfs; 4/24, 6.79 cfs; 4/28, 7.06 cfs; 5/2, 5.86 cfs; 5/5, 7.06 cfs; 5/12, 7.2 cfs; 5/15, 7.06 cfs; 5/19, 7.91 cfs; 5/23, 8.49 cfs; 5/30, 15.23 cfs; 6/2, 9.84 cfs; 6/5, 9.23 cfs; 6/12, 8.49 cfs; 6/16, 8.78 cfs; 6/19, 8.49 cfs; 6/22, 8.63 cfs; 6/26, 7.91 cfs; 6/29, 8.34 cfs; 7/3, 8.19 cfs; 7/6, 8.63 cfs; 7/12, 9.69 cfs; 7/24, 4.63 cfs; 7/28, 4.75 cfs; 8/1, 4.87 cfs; 8/5, 6.39 cfs; 8/8, 8.49 cfs; 8/15, 5.11 cfs; 8/17, 3.19 cfs; 8/21, 4.99 cfs; 8/24, 3.72 cfs; 8/31, 4.51 cfs; 9/5, 5.99 cfs; 9/8, 4.63 cfs; 9/11, 4.51 cfs; 9/14, 4.63 cfs; 9/18, 4.39 cfs; 9/21, 4.51 cfs; 9/27, 6.12 cfs; 9/29, 5.74 cfs; 10/3, 5.74 cfs; 10/6, 5.74 cfs
2001	4/3, Off; 4/6, Off; 4/12, Off; 4/17, Off; 4/20, Off; 4/24, Off; 4/27, Off; 4/30, Off; 5/4, Off; 5/8, 4 cfs; 5/11, 10.79 cfs; 5/15, 10.79 cfs; 5/18, 13.29 cfs; 5/21, 11.6 cfs; 5/24, 10.47 cfs; 5/29, 10 cfs; 6/1, 5.86 cfs; 6/6, 7.48 cfs; 6/12, 7.06 cfs; 6/18, 8.63 cfs; 6/22, 5.86 cfs; 6/29, 4.87 cfs; 7/3, 3.98 cfs; 7/6, 3.98 cfs; 7/9, 5.39 cfs; 7/13, 5.39 cfs; 7/17, 3.94 cfs; 7/21, 2.88 cfs; 7/22, 3.39 cfs; 7/23, 3.94 cfs; 7/26, 3.94 cfs; 7/31, 3.83 cfs; 8/2, 3.61 cfs; 8/7, 3.19 cfs; 8/9, 3.94 cfs; 8/13, 3.83 cfs; 8/17, 3.94 cfs; 8/21, 3.5 cfs; 8/27, 2.88 cfs; 8/31, 3.5 cfs; 9/4, 3.39 cfs; 9/11, 3.94 cfs; 9/14, 3.94 cfs; 9/17, 4.28 cfs; 9/20, 4.99 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.