

KEY STORAGE FACILITIES

Reservoir: KLODT

Date: 26 Feb. 2001

Location: SWSE 23,T44N,R63W

Owner: BILL TOWNSEND

Year of Construction: 1920

Total Storage: 1,708 acre-feet

Active Storage: 980 acre-feet

Dead Storage: None reported in permit.

Area/Capacity Data: *(Source: April 1916 "Map to Accompany Application for Klodt Reservoir," Joseph J. Klodt, applicant, on file in SEO Safety of Dams office.)*

Contour	Area (acres)	Average (acres)	Interval Capacity (acre-feet)
5.00	0.0		
10.00	53.00	26.50	132.50
15.50	81.00	67.00	335.00
20.00	124.00	102.50	512.50
TOTAL AVAILABLE CAPACITY			980.00

Dam Construction Type: Earth Fill

Outlet: 18-inch-diameter cast-iron pipe controlled by a gate valve at the upstream face of the dam

Spillway: 300 x 5 feet (at base)

End-of-Month Storage Records: No

Water Rights: *(Source: Tabulation of Adjudicated Surface Water Rights of the State of Wyoming, Water Division Number Two, Oct. 1999)*

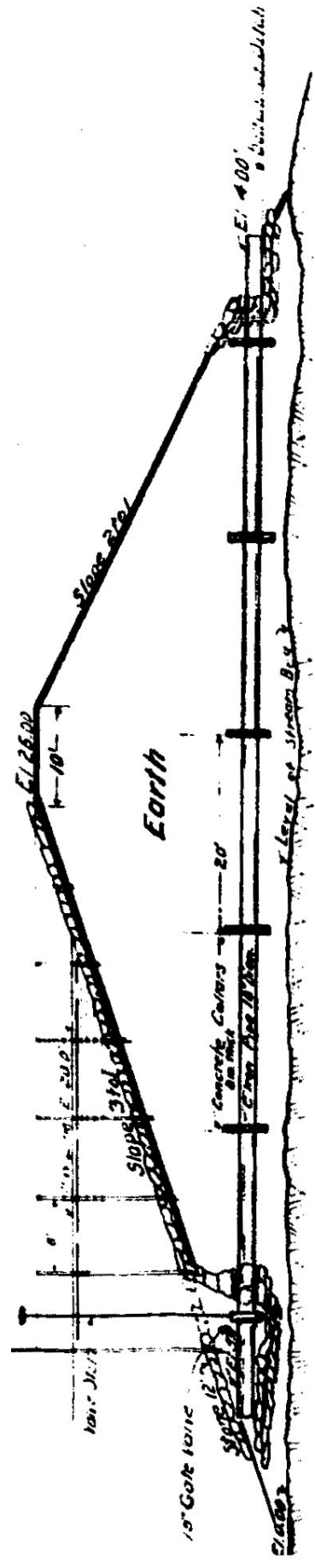
Reservoir	Permit Number	Permitted Use	Priority Date	Volume (af)	Headgate Location (S-T-R)
Klodt Res	2897R	D,I,S	01-30-1915	979.6	23-44-063

Designated Use: Irrigation

Associated Irrigation Diversions: Used in Beaver Valley (permit 13382) and Sunset ditches (13383)

References: *Map to Accompany Application for Klodt Reservoir, Joseph J. Klodt, Newcastle, Wyoming, 3 April 1916.*

Kloldt Dam cross section (Source: "Map to Accompany Application for Kloldt Reservoir," Joseph J. Kloldt, Newcastle, Wyoming, 3 April 1916):



MAXIMUM CROSS SECTION OF DAM.

Scale 1 inch = 20 feet

Net evaporative loss for Kloldt Reservoir:

- Lewis Annual Evaporation (in.) 40
- Total Storage (acre-feet) 1,708

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average percent of storage	52.1	55.7	63.8	67.0	73.3	74.9	73.5	71.3	69.2	51.6	51.3	51.5
Generated storage (acre-feet)	889	951	1090	1144	1253	1278	1255	1218	1183	881	876	879
Corresponding area (acres)	116.4	121.5	133.2	137.7	146.9	149.0	147.1	144.0	141.0	115.7	115.3	115.5

Calculations:

Monthly Lewis Evap. (inches)	1.08	1	1.56	3.2	4.6	5.24	6.84	6.24	4.6	3.04	1.56	1.04
Monthly Precipitation (inches)	0.25	0.25	0.75	1.25	2.25	2.25	1.75	1.25	1.25	0.75	0.25	0.25
Net Evaporation (inches)	0.83	0.75	0.81	1.95	2.35	2.99	5.09	4.99	3.35	2.29	1.31	0.79
Total Net Evaporation (acre-feet)	8	8	9	22	29	37	62	60	39	22	13	8
TOTAL												317