

July 15, 1996

Black Canyon Irrigation District

On July 12, 1996 I contacted Rick Wells and asked if they could raise the Elev. of Black Canyon Dam from a 2497.50 to 2497.60. My purpose was to see how much more water could be put down the Main Canal. The following is the findings.

Date	7-12-96	7-15-96
Lake Elev.	2497.50	2497.60
Discharge Canal	1232 cfs	1255 cfs. + 23 cfs.
Gage Reading's Down Canal		
0.48	was 1032 gage.	0.48 was 1040 gage.
5.79	" 1260 "	5.79 " 1275 " + 15 pts
9.14	" 1220 "	9.14 " 1295 " + 35 pts
14.60	" 880 "	14.60 " 889 " + 9 pts

Changes Noticed In Canal Operations

Pond Gage	9.60	9.68	
Graveyard w. Del.	1.56	.75	+ 4.0 cfs.
H-line Gage	3.92	3.95	+ 2.5 cfs.
D-line Gage	4.16	4.19	+ 2 cfs.

BLACK CANYON
IRRIGATION DISTRICT
CURRENT METER NOTES

Lake Elev. 249750

STATION 0.48 B.C.I.D Main

TIME 9:30 AM

DATE 7-12-96

PARTY S. Ward

GAGE BEGIN 1032

END 1032

Dist. From Initial Point	Depth	Revolutions	Time in Seconds	VELOCITY			Area	Depth	Mean Width	DISCHARGE
				At Point	Mean in Vertical	Mean in Section				
2.0	3.4	15 25	45 42	175 173	104		6.8		7.072	
4.0	4.6	30 30	50 42	134 149	141		9.2		12.972	
6.0	5.6	50 30	44 40	153 167	159		11.2		17.804	
8.0	6.7	30 40	48 40	147 185	176		13.4		21.306	
12.0	9.4	40 40	44 40	201 222	212		37.6		79.712	
16.0	10.9	50 50	46 45	241 247	244		43.6		106.384	
20.0	11.9	50 50	46 42	241 264	252		47.6		119.952	
24.0	12.8	50 60	41 47	271 282	277		51.2		141.824	
28.0	12.7	60 60	46 45	289 296	292		50.8		148.336	
32.0	12.8	50 60	44 42	371 372	286		51.2		146.432	
36.0	11.6	50 60	41 42	271 277	294		46.4		136.416	
40.0	10.1	50 60	44 41	252 330	284		40.4		116.352	
44.0	8.1	50 60	44 44	252 302	277		32.4		89.748	
46.0	6.8	40 50	43 41	207 277	239		13.6		32.504	
48.0	5.8	40 50	49 47	182 236	209		11.6		24.244	
50.0	4.1	40 40	51 47	175 217	196		8.2		16.072	
52.0	3.1	30 30	43 40	155 167	161		6.2		9.982	
54.0	2.0	25 25	44 44	127 127	127		4.0		5.08	
							1053	+21	1232.196	
TOTALS										

Checked by [Signature]

BLACK CANYON
IRRIGATION DISTRICT
CURRENT METER NOTES

Lake Elev. 249760

STATION 0.48 B.C.I.D. Main

TIME 9:05 A.M.

DATE 7-15-96

PARTY S. Ward

GAGE BEGIN 10:41

END 10:41

Dist. From Initial Point	Depth	Revolutions	Time in Secs	VELOCITY		Area	Depth	Mean Width	DISCHARGE
				At Point	Mean in Vertical				
2.0	3.6	25 25	49 41	114 136	1.25	7.2			9.00 ✓
4.0	4.7	25 25	45 48	124 140	1.32	9.4			12.408 ✓
6.0	5.8	30 40	40 49	167 182	1.74	11.6			20.184 ✓
8.0	7.5	30 40	41 46	163 193	1.78	15.0			26.7 ✓
- 12.0	9.2	40 50	44 49	202 227	2.14	36.8			78.752 ✓
- 16.0	11.2	50 50	46 45	241 241	2.44	44.8			109.312 ✓
- 20.0	12.0	50 50	47 42	234 264	2.50	48.0			120.00 ✓
- 24.0	12.8	50 60	46 45	241 286	2.68	51.2			137.216 ✓
- 28.0	12.9	50 60	42 45	264 296	2.80	51.6			144.48 ✓
- 32.0	12.9	60 60	44 44	282 282	2.92	51.6			150.672 ✓
- 36.0	12.4	50 60	42 42	264 317	2.90	49.6			143.84 ✓
- 40.0	10.3	50 60	40 42	277 317	2.97	41.2			122.364 ✓
- 44.0	8.0	50 60	45 43	247 290	2.71	32.0			86.72 ✓
46.0	7.2	40 50	49 41	182 271	2.26	14.4			32.544 ✓
48.6	6.0	40 50	42 47	212 226	2.24	12.0			26.88 ✓
50.0	4.6	30 40	41 42	182 202	1.82	9.2			16.744 ✓
52.0	3.4	30 40	46 43	145 143	1.65	6.8			11.22 ✓
54.0	2.2	25 40	40 40	140 140	1.40	4.4			6.16 ✓
						1066 + 25			1255.196
						23' gain			
TOTALS									

Cont. by

WP 65 Adv. Comm mtg.

7/15/96

JL w/ DRT

- ① Annual report (similar to WD 63) - will bind (book cover) 10 copies, 2 to Iowa
- ② Div. upgrade project of Basin R -
got 5 good bids
Quadrant Eng. selected - sign contract next week
~ \$50k to
 - inventory c 48 P/O on 2 Rivers
 - focus on 10 to upgrade, study, plans, report due NEXT month
 - to actually replace/upgrade 2-4 soon
 - then go to next phases if worthwhile
- ③ Raising BL. Camp Dam
not storage right now (?) - just a "check dam", a div. dam for canals;
not intent to store more H₂O (500 af) so prob. ~~and~~ new work. MA - just raise dam c 12' for river visit. purposes