

1/24/96

Location: Castle Creek, Owyhee Co.

IDWR

J. Westra

S. Lester

Station	BS	IH	FS	ELEV.	REMARKS.
BM ₁	3.71	103.71		100.00	(Top) Stake @ Rt. bank of creek, diversion dam.
Fuquay Diversion			4.90	98.81	LT. Creek Bank
			5.50	98.21	RT. Creek Bank
			9.20	99.51	Creek bottom
			8.29	95.42	Ditch bottom
			7.28	96.43	Water ELEV.
TP ₁	8.92	107.03	5.60	98.11	
TP ₂	9.56	113.71	2.88	104.15	
TP ₃	5.81	115.42	4.10	109.61	
BM ₂			1.53	113.89	Top Guy wire post Electric line
GILBERT #1 Diversion			6.29	109.13	LT. Creek Bank
			5.36	110.06	RT. Creek Bank
			9.00	106.42	Creek bottom
			8.10	107.32	Ditch bottom
			7.69	107.73	Water level
			5.20	110.22	RT. Ditch bank
TP ₄	6.58	120.2	1.80	113.62	
TP ₅	7.10	125.22	2.08	118.12	
TP ₆	1.93	119.68	7.47	117.75	
BM ₃			4.00	115.68	Stake @ Electric Pole. (Top)
GILBERT #2 Diversion			5.84	113.84	LT. Creek Bank
			5.33	114.35	RT. Creek Bank
			7.04	112.64	Creek Bottom
			6.13	113.55	Ditch Bottom
			6.49	113.19	Water Level
			4.26	115.42	LT Ditch Bank

MEMORANDUM

TO: D. Tuthill, Regional Manager

FROM: J. WESTRA

DATE: 1/25/96

RE: Diversion Elevation Measurements
Castle Creek, Owyhee County

On 1/24/96 Steve Lester and I surveyed the Fuquay and Gilbert diversions along Castle Creek. Attached is a copy of the field survey data. As only diversion elevations were needed, no other data was collected. All elevations are reference to BM1 (assigned elevation 100.00 ft.) located at the Fuquay diversion. The following is a summary of the data taken (elevations in ft.):

* <u>DIVERSION</u>	Fuquay	Gilbert #1	Gilbert #2	Gilbert #3
Water Elevation	96.43	107.73	113.19	143.37
Water Elev. Diff. Fuquay Diversion		11.30	16.76	46.94
Creek Bank Height (min)	3.70	2.71	1.2	2.32
Diversion Elev.	95.42	107.32	113.55	*143.09

*PVC pipe invert @ gate

* Addendum

A57-07209 - Gilbert #1 = Taylor Pld to Taylor Reservoirs

A57-00085
etc. Gilbert #2 = minor Gilbert Pld near Gilbert home
 Gilbert #3 = major " " on B. Collett's property

A57-02314 - Fuquay = ditch to Foreman Reservoir

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BM ₁	3.71	103.71		100.00	(Top) Stake @ Rt. bank of creek, diversion dam.
Fuquay Diversion			4.90	98.81	LT. Creek Bank
			5.50	98.21	RT. Creek Bank
			9.30	99.51	Creek bottom
			8.03	95.42	Ditch bottom
			7.25	96.43	Water ELEV.
TP ₁	8.92	107.03	5.60	98.11	
TP ₂	9.56	113.71	2.88	104.15	
TP ₃	5.81	115.42	4.10	109.61	
BM ₂			1.53	113.89	Top Guy wire post Electric line
GILBERT #1 Diversion			6.29	109.13	LT. Creek Bank
			5.36	110.06	RT. Creek Bank
			9.00	106.42	Creek bottom
			8.10	107.32	Ditch bottom
			7.69	107.73	Water level
			5.20	110.22	RT. Ditch bank
TP ₄	6.58	120.2	1.80	113.62	
TP ₅	7.10	125.22	2.08	118.12	
TP ₆	1.93	119.68	7.47	117.75	
BM ₃			4.00	115.68	Stake @ Electric Pole. (Top)
GILBERT #2 Diversion			5.84	113.84	LT. Creek Bank
			5.33	114.35	RT. Creek Bank
			7.04	112.64	Creek Bottom
			6.13	113.55	Ditch Bottom
			6.49	113.19	Water Level
			4.26	115.42	LT Ditch Bank

Station	BS	IH	FS	ELEV.	Remarks
TP7	8.22	126.18	1.72	117.96	
TP8	8.80	134.57	.41	125.77	
TP9	9.12	142.56	1.13	133.44	
TP10	10.46	151.33	1.69	140.87	
TP11	5.95	156.98	.30	151.03	
BM4			10.13	146.85	Top Gate Frame on Pipe @ E
			11.89	145.09	LT Creek Bank
			11.25	145.73	RT Creek Bank
			14.21	142.77	Creek Bottom
			13.61	143.37	Water Level
*			11.91	145.07	Top of Pipe upstream
			12.68	144.30	Top of Pipe DWS Trench
TP12	6.65	163.53	.10	156.88	
TP13	10.81	166.64	7.70	155.83	
TP14	8.41	174.85	.20	166.44	
BM5			2.00	172.85	Stake @ Corner posts toward road - (Top)
* - Gate Pipe 2 Ft. PVC-11120 (Green)					Invert @ upstream
- Water froze through pipe, gate closed.					
IPs - 24" OD					
23 1/8" ID					

GILBERT #3 Division

Station	BS	IH	FS	ELEV	Remarks.
Stake	3.71				Creek @ L. ...
on RT			4.90		LB. Creek
Rock pile			8.29		...
of lane.			9.70		@ C D. ...
			5.50		PB Creek
			7.10		Water Flow
			...		
TP1 -	892				
TP2 -	756		2.88		
TP3 -	581		4.10		
			1.93		Canyon Post Top
			5.36		RT Creek
			9.00		Bottom Creek
			1.27		LT Creek
			7.10		...
			8.00		RT Ditch Bank
			5.20		RT Ditch Bank
			8.10		Level Bottom
			1.80		
TP4 -	658				
TP5 -	715		2.50		
			...		
TP6 -	1.23		7.47		
			5.30		RT Creek Bank
			5.40		...
			7.01		Level Bottom
					...
					...

Station	BS	IH	FS	ELEV	Remarks
			426		High
			613		Middle 2000
			611		Water Pump
			416		BM
					with at
					1 km. Bca
Tr 7	446		172		
Tr 8	446		41		
Tr 9	446		113		
Tr 10	446				Pipe 24
Tr 11	446		130		pvc 11130
					Top of pipe
			1191		up stream
			1268		down
			1135		RT Mid Creek
			1451		Bella works
			1134		27 Mid Creek
			7012		BM. Top of
					gate
Tr 12	446		10		
Tr 13	446		770		
Tr 14	446		10		
			205		BM. Stake
					at Camp Post