9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No. . . . . .

Comp. by. . . . . .

WATER RESOURCES DIVISION

Sta. No. . . . . **DISCHARGE MEASUREMENT NOTES** Checked by . . . . .

Aravaipa Cr @ DS ACWA Rdry

Date 11 Oct., 19 11 . . . Party . . . FOGG . . . WELLS . . .

Width 16.5 ft. Area 9.16 ft² Vel. 1.41 ft/s G. H. . . . . Disch. 12.94 . . .

Method 0.6d No. secs. 19 . . . G. H. change. . . . . in . . . . . hrs. Susp. Rod

Method coef. 1.0 . . . Hor. angle coef. 1.0 . . Susp. coef. 1.0 . Meter No. . . . . .

Type of meter Pygmy . . Date rated . . . . . Tag checked . . . . . .

Meter . . . . . ft. above bottom of wt. Spin before meas. 100 SEC after . . . . . .

Meas. plots. . . . . % diff. from. . . . . rating. Levels obtained. . . . . .

GAGE READINGS						WATER QUALITY MEASUREMENTS
Time		Inside	ADR	Graphic	Outside	No . . . . . Yes. . . . . Time . . . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Samples Collected
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	No . . . . . Yes. . . . . Time . . . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Method Used
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	EDI . . . . . EWI . . . . . Other. . . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	SEDIMENT SAMPLES
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	No . . . . . Yes. . . . . Time . . . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	Method Used
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	EDI . . . . . EWI . . . . . Other. . . . .
Weighted M.G.H.		. . . .	. . . .	. . . .	. . . .	BIOLOGICAL SAMPLES
G. H. correction		. . . .	. . . .	. . . .	. . . .	Yes. . . . . Time . . . . .
Correct M.G.H.		. . . .	. . . .	. . . .	. . . .	No . . . . . Type . . . . .

Check bar. chain found . . . . . changed to . . . . . at . . . . . .

Wading, cable, ice, boat, upstr., downstr., side bridge. . . . . feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow. . . . . .

Cross section . . . . . .

Control . . . . . .

Gage operating . . . . . Weather . . . . . .

Intake/Orifice cleaned . . . . . Air . . . . . °C@ . . . . . Water . . . . . °C@ . . . . . .

Record removed . . . . . Extreme Indicator: Max. . . . . Min. . . . . .

Manometer N_2 Pressure Tank . . . . . Feed . . . . . Bbl rate . . . . . per min.

CSG checked . . . . . Stick reading . . . . . .

Observer . . . . . .

HWM . . . . . outside, in well

Remarks . . . . . .

. . . . . .

. . . . . .

G.H. of zero flow . . . . . ft. Sheet No. . . . . of . . . . . sheets

USAV2-00003653

Q=VA

River at— ✓

Angle coefficient	Dist. from initial point	Width (W)	Depth (D)	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	Adjusted for hor. angle or --------	W×D Area (A)	V×A Discharge (Q)
LEW	56.5	.25									
	56.0	.50	.62	6	25	47	.548			.31	.16988
	55.5	.50	.62	↓	25	40	.639			.31	.19809
	55.0	.50	.77		80	53	1.50			.385	.5775
	54.5	.50	.89	↓	80	43	1.85			.445	.82325
	54.0	.50	.85		60	46	1.30			.425	.5525
	53.5	.50	.82	↓	60	44	1.36			.41	.5576
	53.0	.75	.77		60	42	1.42			.5775	.82005
	52.0	1.00	.70		80	45	1.76			.7	1.232
	51.0	1.0	.68		80	41	1.93			.68	1.3124
	50.0	1.0	.65		80	41	1.93			.65	1.2545
	49.0	1.0	.65		80	48	1.66			.65	1.079
	48.0	1.0	.62		80	47	1.69			.65	1.0985
	47.0	1.0	.59		80	49	1.62			.59	.9558
⊙	46.0	1.0	.55		60	45	1.33			.55	.7315
	45.0	1.0	.51		30	41	.743			.51	.681
	44.0	1.0	.50		40	44	.916			.50	.458
	43.0	1.0	.38		30	45	.679			.38	.25802
	42.0	1.0	.32		20	41	.505			.32	.1616
	41.0	1.0	.12		5	46	.134			.12	.01608
REW	40.0	.50									
										Q =	12.94
									A =	9.16	
							1.41 =	V =	Q/A		