Route Main St Stream Antelope (	reek	MRM	Da	te 7/12/	// Ini	tials Cy_
Bridge Structure No. 6129 7061 Loc	cation \s	Mission		4		
Bridge Structure No. 61297061 Location Nission, Anteloge Ck on Man St GPS coordinates: N491810.0" taken from: USL abutment centerline of 11 MRM end						
W 100° 39′ 31.1" Datum of coordinates: WGS84 NAD27						
Drainage area = $90.80$ sq. mi.			C <del></del>	i :		
The average bottom of the main channel was $16.2$ ft below top of guardrail at a point $20$ ft from left abutment.						
Method used to determine flood flows:Freq. Analdrainage area adjustmentregional regression equations.						
MISCELLANEOUS CONSIDERATIONS						
Flows	$Q_{100} =$	131	DEKATIO	$Q_{500} =$	159	
Estimated flow passing through bridge	131			159		
Estimated road overflow & overtopping	101			100		
Consideration	Yes	No	Possibly	Yes	No	Possibly
Chance of overtopping	7 03	Y	1 0331019	103	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Tossiory
Chance of Pressure flow		\$	1		<b>→</b>	
Armored appearance to channel		X			$\rightarrow$	
Lateral instability of channel		×			$\Diamond$	
Riprap at abutments? Yes	No	Marginal				
Evidence of past Scour? Yes No Don't know						
Debris Potential?HighMedLow						
Does scour countermeasure(s) appear to have been designed?						
Riprap Yes No Don't know NA						
Other YesNoDon't knowNA						
Bed Material Classification Based on Median Particle Size (D <sub>50</sub> )						
Material Silt/Clay Sand Sand	ial Silt/Clay X Sand Gravel Gravel					Boulders
Size range, in mm < 0.062 0.062-2.	00	2.00-64		64-250		>250
Comments, Diagrams & orientation of digital photos						
1759-1D 64-1 Abot						
P ( LIVI VIIV						
60-US						
61 - 45 RB 62-45 LB						
60 43 20						
63-R, Abut						
Summary of Results						
		Q100			Q500	
Bridge flow evaluated	1	31		)	59	
Flow depth at left abutment (yaLT), in feet	/	2.0		7	2.0	
Flow depth at right abutment (yaRT), in feet	-	0,0			2.0	
Contraction scour depth (ycs), in feet	1	7			. 8	
Pier scour depth (yps), in feet						
Left abutment scour depth (yas), in feet	C	0.0		(	2.0	
Right abutment scour depth (yas), in feet	0	. 0		0	0,0	
1Flow angle of attack	T	2			12	