

Raychel Quiroga Collection  
Arrow, Dart and Fragmented Projectile Points Found Within the Lower Rio Grande Valley  
Region

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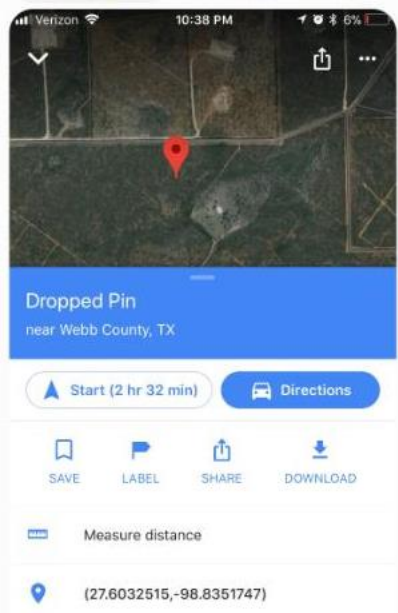
Community Historical Archaeology Project with Schools  
University of Texas Rio Grande Valley  
Edinburg, TX  
Special Report No. 7

## OUR GOAL

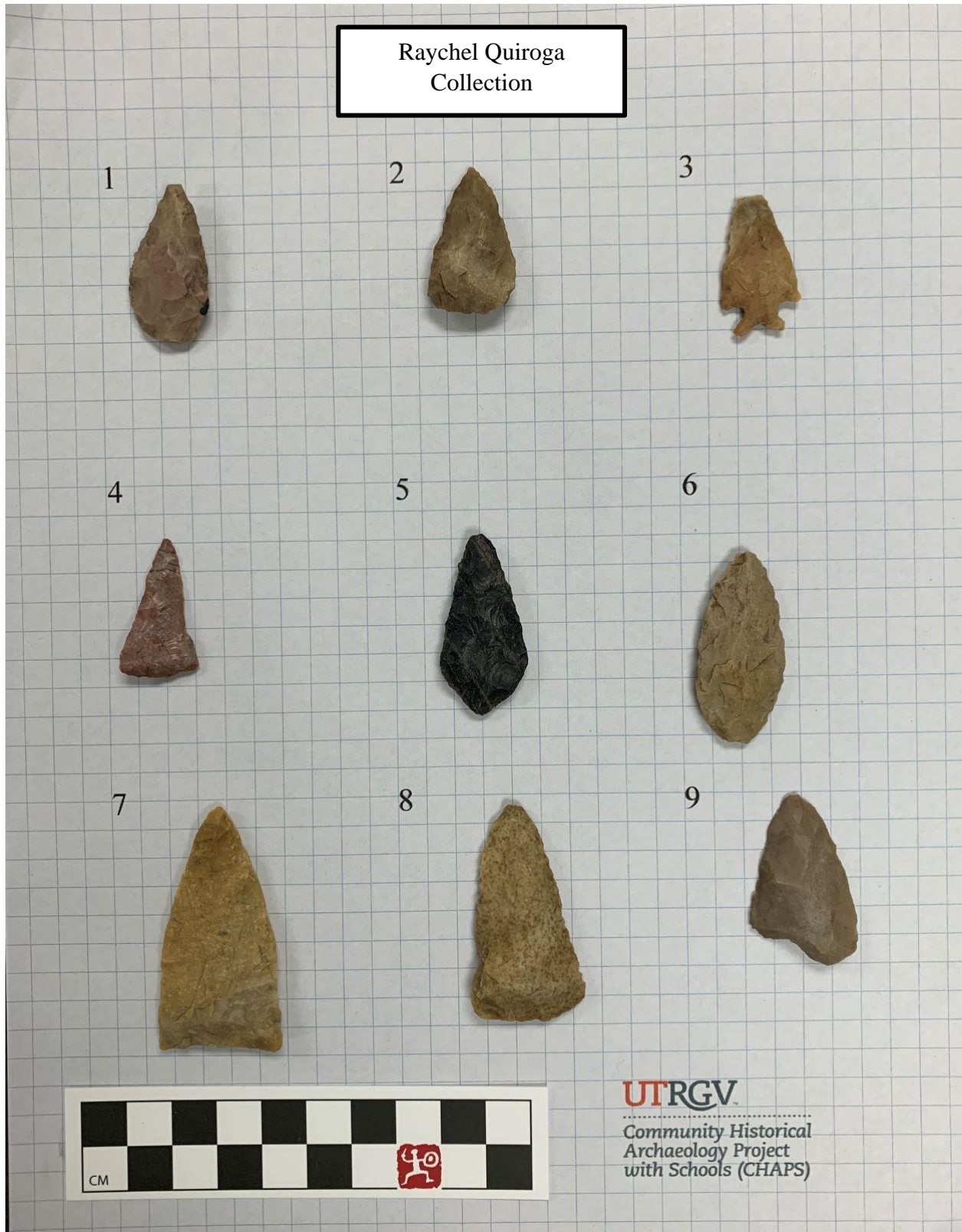
Our goal at CHAPS is to identify evidence for the over 12,000-year occupation of the Rio Grande Valley Region. This entails photographing, describing, and sometimes drawing or casting projectile points and establishing their date within known typologies, identifying the stone or lithic source materials for the points, and locating their place of discovery. With permission of the "finder" and the landowner, we will record sites with the Texas Historical Commission to ensure information on the sites is preserved for future generations. Information gleaned from these descriptive endeavors will be used for scholarly research purposes. All site locations will be kept confidential per the guidelines established by the State of Texas and the larger code of ethics adhered to by the Register of Professional Archaeologists.

## PROPERTY LOCATION

The Raychel Quiroga Collection was accumulated over decades from multiple counties across the Lower Rio Grande Valley of Texas. The artifacts are surface finds, found after natural processes or agricultural activity exposed them. The provenance of most of the artifacts is unknown. Many of the artifacts were recovered in Starr, Webb, and Zapata Counties. One of the precise locations, in Webb County, is pictured below.



IMAGES OF ARTIFACTS



Raychel Quiroga  
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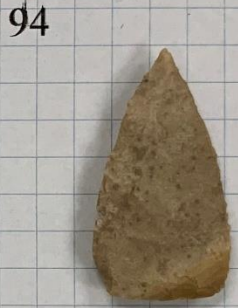
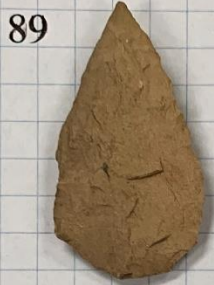


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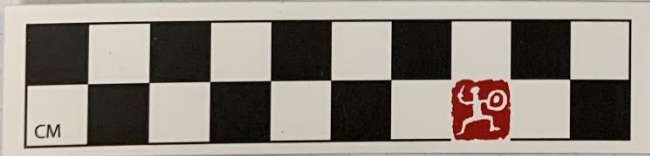
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## ARTIFACTS

Number	Type	Material	Color	Period	Bag number
1	Catán	chert	5YR 6/2 pinkish gray	Late Archaic (1000 BCE-300 BCE)	poster
2	Catán	chert	10YR 5/3 brown	Late Archaic (1000 BCE-300 BCE)	poster
3	Edwards	chert	10YR 6/4 light yellowish brown	Late Prehistoric (700 CE-1600 CE)	paper
4	Fresno	chert	10R 5/3 weak red	Late Prehistoric (700 CE-1600 CE)	paper
5	Desmuke	black banded metamorphic rock	10YR 2/1 black	Late Archaic (1000 BCE-300 BCE)	bag
6	Possible Catán	chert	2.5YR 6/2 light brownish gray	Late Archaic (1000 BCE-300 BCE)	bag
7	Tortugas	chert	10YR 6/3 pale brown	Middle Archaic (2500 BCE-1000 BCE)	poster
8	Tortugas	Petrified palm	2.5Y 6/2 light brownish gray, spotted	Middle Archaic (2500 BCE-1000 BCE)	loose
9	Broken tip, reworked as a tool	chert	10YR 6/2 light brownish gray	Unknown	loose
10	Matamoros	chert	7.5YR 6/3 light brown	Late Archaic (1000 BCE-300 BCE)	loose
11	Matamoros	chert	7.5YR 5/1 gray	Late Archaic (1000 BCE-300 BCE)	loose
12	Matamoros	chert	10YR 7/2 light gray	Late Archaic (1000 BCE-300 BCE)	loose

13	Matamoros	chert	10YR5/2 grayish brown	Late Archaic (1000 BCE-300 BCE)	loose
14	Matamoros	quartz	10YR 5/2 grayish brown	Late Archaic (1000 BCE-300 BCE)	loose
15	Matamoros	chert	10YR 6/2 light brownish gray	Late Archaic (1000 BCE-300 BCE)	loose
16	Possible Lerma, discard, step fracture	chert	10YR 6/3 pale brown	Early Archaic (6500 BCE-2500 BCE)	loose
17	Tortugas	chert	2.5Y 5/2 grayish brown	Middle Archaic (2500 BCE-1000 BCE)	loose
18	Broken tip, alternately beveled	chert	7.5YR 6/3 light brown	Unknown	049-057
19	Broken Tip	chert	2.5Y 7/3 pale brown	Unknown	049-057
20	Broken Tip	chert	7.5YR 6/3 light brown	Unknown	049-057
21	Broken Tip	chert, possible heat treated	10R 5/4 weak red	Unknown	049-057
22	Broken Tip	chert	10R 4/2 weak red	Unknown	049-057
23	Broken Tip	chert	5YR 6/2 light reddish brown	Unknown	049-057
24	Broken Tip	quartzite	10YR 6/2 light brownish gray	Unknown	049-057
25	Matamoros	quartzite	10YR 5/2 grayish brown	Late Archaic (1000 BCE-300 BCE)	049-057
26	Uvalde	chert	7.5YR 5/2 brown	Early Archaic (8500 BCE-2500 BCE)	<b>041-047</b>
27	Padre	chert	7.5YR 5/2 brown	Late Prehistoric (700-1000 CE)	041-047
28	Tortugas	chert, heavily patinated	7.5YR 5/3 brown	Middle Archaic (2500 BCE-1000 BCE)	041-047
29	Tortugas	chert	10 YR 6/4 light yellowish brown	Middle Archaic (2500	041-047



				BCE-1000 BCE)	
<b>30</b>	Tortugas	chert	7.5YR 7/1 light gray with speckles	Middle Archaic (2500 BCE-1000 BCE)	041-047
<b>31</b>	Five-sided type	chert	10YR 6/2 light brownish gray	Unknown	041-047
<b>32</b>	Probable Tortugas, crudely made	chert	10YR 6/4 light yellowish brown	Middle Archaic (2500 BCE-1000 BCE)	041-047
<b>33</b>	Possible Lerma, broken tip	chert	10YR 7/3 very pale brown with stripes	Early Archaic (8500 BCE- 2500 BCE)	041-047
<b>34</b>	Desmuke	chert	10YR 7/2 light gray	Late Archaic (1000 BCE- 300 BCE)	041-047
<b>35</b>	Probable Desmuke	agate	10YR 5/3 brown	Late Archaic (1000 BCE- 300 BCE)	041-047
<b>36</b>	Lerma	chert	10YR 7/1 light gray	Early Archaic (8500 BCE- 2500 BCE)	041-047
<b>37</b>	Early Triangular	chert	10YR 7/3 very pale brown	Early Archaic (8500 BCE- 2500 BCE)	041-047
<b>38</b>	Knife/Possible Tortugas	chert	7.5R 5/2 brown	Middle Archaic (2500 BCE-1000 BCE)	041-047
<b>39</b>	Possible discard, bifacially worked, curved, large flake	chert	7.5YR 6/2 pinkish gray	Unknown	041-047
<b>40</b>	Early triangular	chert	2.5YR 7/2 light gray	Early Archaic (8500 BCE- 2500 BCE)	041-047
<b>41</b>	Broken tip	agate	10YR 5/1 gray	Unknown	041-047
<b>42</b>	Tortugas	chert	10YR 5/2	Middle Archaic (2500 BCE-1000 BCE)	041-047
<b>43</b>	Tortugas, end snap, reworked as spokeshave	chert	7.5YR 5/3 brown	Middle Archaic (2500 BCE-1000 BCE)	041-047

44	Tortugas	chert, heavily patinated	10YR 5/2 grayish brown	Middle Archaic (2500 BCE-1000 BCE)	041-047
45	Abasolo	chert	2.5Y 5/3 light olive brown	Early Archaic (8500 BCE-2500 BCE)	041-047
46	Tortugas	chert, milky-cream colored	10YR 7/4 very pale brown	Middle Archaic (2500 BCE-1000 BCE)	041-047
47	Early Triangular	chert	2.5Y 5/2 grayish brown, mottled	Early Archaic (8500 BCE-2500 BCE)	041-047
48	Lerma	chert	10YR 6/2 light brownish gray	Early Archaic (8500 BCE-2500 BCE)	041-047
49	Broken Tip	chert	10YR 6/2 light brownish gray	Unknown	041-047
50	Broken Tip, parallel oblique flaking	chert	10YR 6/1 gray	Unknown	1-7
51	Broken tip, reworked	quartzite	10YR 5/2 grayish brown	Unknown	1-7
52	Broken tip, oblique flaking	chert	10YR 6/2 light brownish gray	Unknown	1-7
53	Unknown	chert	5R 4/2 dark reddish gray	Unknown	1-7
54	Desmuke	chert	5R 5/2 reddish gray	Late Archaic (1000 BCE-300 BCE)	1-7
55	Probable Lerma (round base)	chert	10YR 6/2 light brownish gray	Early Archaic (8500 BCE-2500 BCE)	1-7
56	Broken base	chert	10YR 7/2 light gray	Unknown	1-7
57	Broken tip	quartzite	10YR 6/2 light brownish gray	Unknown	1-7
58	Broken tip	chert	7.5R 5/3 brown, with reddish marks on one side	Unknown	1-7
59	Probable Lerma (round base)	chert	7.5YR 5/2 brown	Early Archaic (8500 BCE-2500 BCE)	1-7

60	Broken tip, finely parallel flaked, beveled edge	chert	2.5Y 5/2 grayish brown	Unknown	1-7
61	Unknown ovoid similar to # 59	chert	2.5YR 4/1 & 7.5YR 5/4 dark gray & brown	Unknown	1-7
62	Probable discard	chert	10YR 7/2 light gray with pink streak	Unknown	1-7
63	Desmuke	chert, heavily patinated	10YR 3/2 very dark grayish brown	Late Archaic (1000 BCE-300 BCE)	1-7
64	Desmuke	quartz	10YR 6/2 light brownish gray, darker at tip	Late Archaic (1000 BCE-300 BCE)	1-7
65	Abasolo, very thin-2mm	chert	10YR 5/1	Early Archaic (8500 BCE-2500 BCE)	1-7
66	Abasolo	chert	2.5Y 7/1 light gray, speckled white	Early Archaic (8500 BCE-2500 BCE)	1-7
67	Probable discard, large hinge	chert	7.5YR 7/2 pinkish gray	Unknown	1-7
68	Preform	chert, heavily patinated	10YR 5/2 grayish brown	Unknown	1-7
69	Probable Abasolo	chert	10YR 6/3 pale brown	Early Archaic (8500 BCE-2500 BCE)	1-7
70	Lerma/discard	chert	10YR 6/3 pale brown	Early Archaic (8500 BCE-2500 BCE)	1-7
71	Pandora or knife	chert	10 YR 6/2 light brownish gray	Middle Archaic (2500 BCE-1000 BCE) to Late Archaic (1000 BCE-300 BCE)	25-31
72	Abasolo possible, ovate	chert	10YR 6/2	Late Archaic (1000 BCE-300 BCE)	25-31
73	Preform, Lerma-like	chert	10YR 5/2 & 10YR 6/2 mottled (light brownish gray & grayish brown)	Unknown	25-31

74	Abasolo	chert	10YR 5/3 brown	Early Archaic (6500 BCE-2500 BCE) Middle Archaic 2500 BCE-1000 BCE	25-31
75	Broken tip, long	chert, heavily patinated	10YR 4/2 dark grayish brown, speckled	Unknown	25-31
76	Matamoros	chert	7.5Y 7/2 striped	Late Archaic (1000 BCE-300 BCE)	25-31
77	Pandora	chert	2.5Y 7/2 light gray, white speckles	Middle Archaic (2500 BCE-1000 BCE) to Late Archaic (1000 BCE-300 BCE)	25-31
78	Early triangular	variegated chert	10YR 6/1 & 10YR 7/1 striped (gray & light gray)	Early Archaic (6500 BCE-2500 BCE)	25-31
79	Early triangular	chert	10YR 6/4 light yellowish brown	Early Archaic (6500 BCE-2500 BCE)	25-31
80	Abasolo	chert	10YR 6/2 light brownish gray, mottled	Middle Archaic 2500 BCE-1000 BCE	25-31
81	Early Triangular, very fine parallel oblique flaking	chert	7.5YR 5/2 brown	Unknown	25-31
82	Tortugas	chert	7.5YR 6/3 pale brown	Middle Archaic (2500 BCE-1000 BCE)	25-31
83	Early triangular	chert	10YR 6/3 pale brown	Early Archaic (6500 BCE-2500 BCE)	25-31
84	Unknown triangular, heavily reworked	chert	2.5Y 5/1 gray	Unknown	25-31
85	Tortugas	chert	10YR 8/3 very pale brown	Middle Archaic (2500	25-31

				BCE-1000 BCE)	
86	Tortugas	chert, heavily patinated	7.5YR 5/6 strong brown	Middle Archaic (2500 BCE-1000 BCE)	25-31
87	Preform or discard triangular	chert	10YR 7/3 very pale brown	Unknown	25-31
88	Triangular tool, graver	black banded metamorphic rock	10YR 3/1 very dark gray	Unknown	25-31
89	Catán	chert, heavily patinated	10YR 6/4 light yellowish brown	Late Archaic (1000 BCE-300 BCE)	25-31
90	Catán	chert	2.5Y 6/2 light brownish gray	Late Archaic (1000 BCE-300 BCE)	25-31
91	Matamoros	chert	10YR 6/3 pale brown	Late Archaic (1000 BCE-300 BCE)	25-31
92	Unknown ovoid/ possible Lerma	chert	10YR 6/4 light yellowish brown	Early Archaic (6500 BCE-2500 BCE)	25-31
93	Lerma (small, finely made)	chert	2.5Y 7/1 light gray	Early Archaic (6500 BCE-2500 BCE)	25-31
94	Tortugas	chert	10 YR 6/2 light brownish gray	Middle Archaic (2500 BCE-1000 BCE)	25-31
95	Possible knife with broken base and tip	chert, heavily patinated	7.5YR 5/4 brown	Unknown	25-31
96	Padre	chert	10YR 7/3 very pale brown	Late Prehistoric (700 CE-1600 CE)	25-31
97	Catán	chert	10YR 5/1 gray	Late Archaic (1000 BCE-300 BCE)	25-31
98	End scraper	chert	10YR 6/4 light yellowish brown	Unknown	8-15
99	Bi-facial tool	chert	10YR 7/2 light gray	Unknown	8-15
100	Discoidal scraper	chert	2.5Y 6/3 & 10YR 4/1 spots (light	Unknown	8-15

			yellowish brown & dark gray)		
<b>101</b>	Abasolo, reworked	chert	10YR 7/2 light gray	Early Archaic (6500 BCE-2500 BCE)	8-15
<b>102</b>	Unknown. Similar to 68, thin	chert	10YR 6/2 light brownish gray	Unknown	8-15
<b>103</b>	Pandora	chert	10YR 6/3 pale brown	Middle Archaic (2500 BCE-1000 BCE) to Late Archaic (1000 BCE-300 BCE)	8-15
<b>104</b>	Tortugas	chert		Middle Archaic (2500 BCE-1000 BCE)	8-15
<b>105</b>	Broken tip, used as a tool	rhyolite/volcanic	2Y4/2 & 10R 4/4 gray and weak red. Streaked with crystals	Unknown	8-15
<b>106</b>	Scraper	chert	10YR 5/3 brown	Unknown	8-15
<b>107</b>	Unknown, thick	chert	10YR 6/3 pale brown	Unknown	8-15
<b>108</b>	Broken Tip	basalt/volcanic	10YR 2/1 black	Unknown	8-15
<b>109</b>	Broken tip	chert	10YR 6/2 light brownish gray	Unknown	8-15
<b>110</b>	Pandora	agate	10YR 4/1 dark gray	Middle Archaic (2500 BCE-1000 BCE) to Late Archaic (1000 BCE-300 BCE)	8-15
<b>111</b>	Can't identify. Parallel oblique flaking, flared base, possible Paleo.	chert	10 YR 6/3 pale brown	Unknown	8-15
<b>112</b>	Can't identify, basal corners missing, use as a tool, possible Paleoindian	chert	7.5YR 5/2 brown	Unknown	8-15
<b>113</b>	Broken tip	chert	10YR 5/3 brown	Unknown	8-15

114	Broken tip	chert	10YR 6/2 light brownish gray	Unknown	8-15
115	Unknown/Tortugas	chert	10YR 8/3 very pale brown	Middle Archaic (2500 BCE-1000 BCE)	8-15
116	Unknown	chert	2.5YR 6/6 light red	Unknown	8-15
117	Pandora	chert	10YR 6/4 light yellowish brown	Middle Archaic (2500 BCE-1000 BCE) to Late Archaic (1000 BCE-300 BCE)	8-15
118	Pandora, reworked	chert	10YR 4/2 dark grayish brown	Middle Archaic (2500 BCE-1000 BCE) to Late Archaic (1000 BCE-300 BCE)	8-15
119	End scraper	chert	10YR 6/3 pale brown	Unknown	8-15
120	Possible Lerma	fire agate	2.5R 4/4 reddish brown	Unknown	8-15
121	Triangular, unifacial tool	chert	10YR 7/1 light gray	Unknown	8-15
122	Triangular tool	chert	10YR 7/3 very pale brown	Unknown	<b>33-39</b>
123	Unknown triangular, possible spokeshave	chert	10YR 5/2 grayish brown, unusual white, raised textural surface (see photograph)	Unknown	33-39
124	Early Triangular	Black Banded Metamorphic Rock	GLE Y 2.5/5PB & 10YR 6/2 (bluish black & light brownish gray)	Early Archaic (6500 BCE-2500 BCE)	33-39
125	Broken tip	chert	5YR 5/4 reddish brown	Unknown	33-39
126	Broken tip	chert	5YR 6/4	Unknown	33-39
127	Preform	chert	10YR 7/4 very pale brown	Unknown	33-39

<b>128</b>	Desmuke	chert	10YR 7/2 light gray	Late Archaic (1000 BCE-300 BCE)	33-39
<b>129</b>	Carrizo	chert	2.5Y 7/2 light gray	Middle Archaic 2500 BCE-1000 BCE	33-39
<b>130</b>	Desmuke	variegated chert	2.5Y 6/2 light brownish gray, variegated	Late Archaic (1000 BCE-300 BCE)	33-39
<b>131</b>	Tortugas, reworked	chert	10YR 6/2 light brownish gray	Middle Archaic (2500 BCE-1000 BCE)	33-39
<b>132</b>	Tortugas	chert	10YR 6/2 light brownish gray	Middle Archaic (2500 BCE-1000 BCE)	33-39
<b>133</b>	Unknown/ovate	chert	10YR 7/4 very pale brown	Unknown	33-39
<b>134</b>	Unknown/ovate	chert	10YR 6/3 pale brown	Unknown	33-39
<b>135</b>	Unknown/ovate	chert	7.5YR 6/3 light brown	Unknown	33-39
<b>136</b>	Matamoros	chert, heavily patinated	7.5Yr 6/4 variegated multi-color	Late Archaic (1000 BCE-300 BCE)	33-39
<b>137</b>	Unknown, heavy wear on tip, base used as a tool	chert, heavily patinated	7.5YR 5/3 brown	Middle Archaic (2500 BCE-1000 BCE)	33-39
<b>138</b>	Lerma	chert	10YR 6/4 light yellowish brown	Early Archaic (6500 BCE-2500 BCE)	33-39
<b>139</b>	Unknown/preform-may have round stem	chert	10YR 7/2 light gray	Unknown	33-39
<b>140</b>	Matamoros	chert	5YR 7/2 pinkish gray	Late Archaic (1000 BCE-300 BCE)	33-39
<b>141</b>	Matamoros	chert	10YR 7/2 light gray	Late Archaic (1000 BCE-300 BCE)	33-39
<b>142</b>	Possible Darl, possible Paleo,	waxy chert	10YR 4/6 dark yellowish brown	Transitional Archaic (300	33-39



	heavily ground lateral edges			BCE to 700 CE)	
<b>143</b>	Unknown triangular	chert	10YR 8/4 very pale brown	Unknown	33-39
<b>144</b>	Early Triangular	chert	7.5YR 6/3 light brown	Early Archaic (6500 BCE-2500 BCE)	33-39
<b>145</b>	Catán	chert	10YR 7/4	Late Archaic (1000 BCE-300 BCE)	33-39
<b>146</b>	Nueces Tool	quartz	10YR 6/2 light brownish gray, reddish streaks and cortex	Middle Archaic (2500 BCE-1000 BCE) to Late Archaic (1000 BCE-300 BCE)	<b>67-71</b>
<b>147</b>	Preform on large flake	quartzite	10YR 6/2 light brownish gray	Unknown	67-71
<b>148</b>	Ovate preform or tool	quartz	2.5Y 6/2 light brownish gray	Unknown	67-71
<b>149</b>	Bi-pointed preform or tool	quartz	10YR 5/2 grayish brown	Unknown	67-71
<b>150</b>	Clear Fork Tool (Gouge)	rhyolite/volcanic	7.5YR 5/2 brown, spotted, striped	Paleoindian (9500 BCE-6500 BCE) to Middle Archaic (2500 BCE-1000 BCE)	67-71
<b>151</b>	Preform or discoidal tool	chert	10YR 6/3 pale brown	Unknown	67-71
<b>152</b>	Clear Fork Tool (Gouge)	rhyolite/volcanic	10YR 3/2 very dark grayish brown	Paleoindian (9500 BCE-6500 BCE) to Middle Archaic (2500 BCE-1000 BCE)	67-71
<b>153</b>	Bi-facial knife	chert	10YR 6/3 pale brown	Unknown	67-71
<b>154</b>	Bifacially worked tool/knife on large curved flake	chert	2.5Y 6/2 speckled light brownish gray	Unknown	67-71
<b>155</b>	Broken Tool/Gouge	volcanic	2.5Y 5/1 gray	Unknown	67-71

<b>156</b>	Clear Fork Tool (Gouge)	volcanic	7.5YR 5/1 gray, reddish streak	Paleoindian (9500 BCE-6500 BCE) to Middle Archaic (2500 BCE-1000 BCE)	67-71
<b>157</b>	Unifacial tool, heavily worn	chert	10YR 5/2 grayish brown	Unknown	67-71
<b>158</b>	Bifacial tool	quartz	10YR 5/1 gray	Unknown	67-71
<b>159</b>	Ovate bifacial tool	agate	7.5YR 4/3 brown	Unknown	67-71
<b>160</b>	Thin bifacial tool/knife	chert	2.5Y 7/2 light gray	Unknown	59-63
<b>161</b>	Large Adz	chert, heavily patinated	10YR 5/4 yellowish brown, variegated	Unknown	67-71
<b>162</b>	Bifacial tool/knife	chert	10YR 7/2 light gray variegated	Unknown	59-60
<b>163</b>	Small gouge	chert, possible heat treated	2.5YR 6/6 light red, mottled	Paleoindian (9500 BCE-6500 BCE) to Middle Archaic (2500 BCE-1000 BCE)	59-60
<b>164</b>	Clear Fork Tool (Gouge)	quartzite	10YR 5/2 grayish brown	Paleoindian (9500 BCE-6500 BCE) to Middle Archaic (2500 BCE-1000 BCE)	59-60
<b>165</b>	Large bifacial tool/knife	chert	10YR 7/4 very pale brown, spotted dark brown	Unknown	59-60
<b>166</b>	Core	chert	10YR 4/2 dark grayish brown	Unknown	73-79
<b>167</b>	Clear Fork Tool (Gouge)	volcanic	10YR 5/3 & 10YR 3/1 brown & very dark brown	Paleoindian (9500 BCE-6500 BCE) to Middle Archaic (2500 BCE-1000 BCE)	59-60
<b>168</b>	Bifacial tool/knife	chert	10YR 5/3 brown	Unknown	73-79

169	Discoidal tool	chert	10YR 5/2 grayish brown	Unknown	73-79
170	Scraper, bifacial discoidal	chert	10YR 7/3 & 10YR 4/2 very pale brown and dark grayish brown, some red variegated	Unknown	73-79
171	Probable discard, bi-facially worked large flake	chert	10YR 5/2 grayish brown	Unknown	73-79
172	Broken tip	chert	10YR 6/2 light brownish gray	Unknown	73-79
173	Fossilized bivalve	n/a	2.5Y 7/2 light gray	Cretaceous	73-79

CLOSE UP IMAGES OF SELECTED MATERIALS





**COMMENTS**

The bag numbers noted in the far right column of the list of artifacts correspond to bags labeled by Brandi Reger, while conducting research on lithic raw materials of local artifacts. Additional information about lithic raw materials is available in “Lithic Raw Materials in the Lower Rio Grande Valley, South Texas and Northeast Mexico” (Reger et al. 2020). The accompanying spreadsheet is on file at the CHAPS office.

**RAYCHEL QUIROGA**

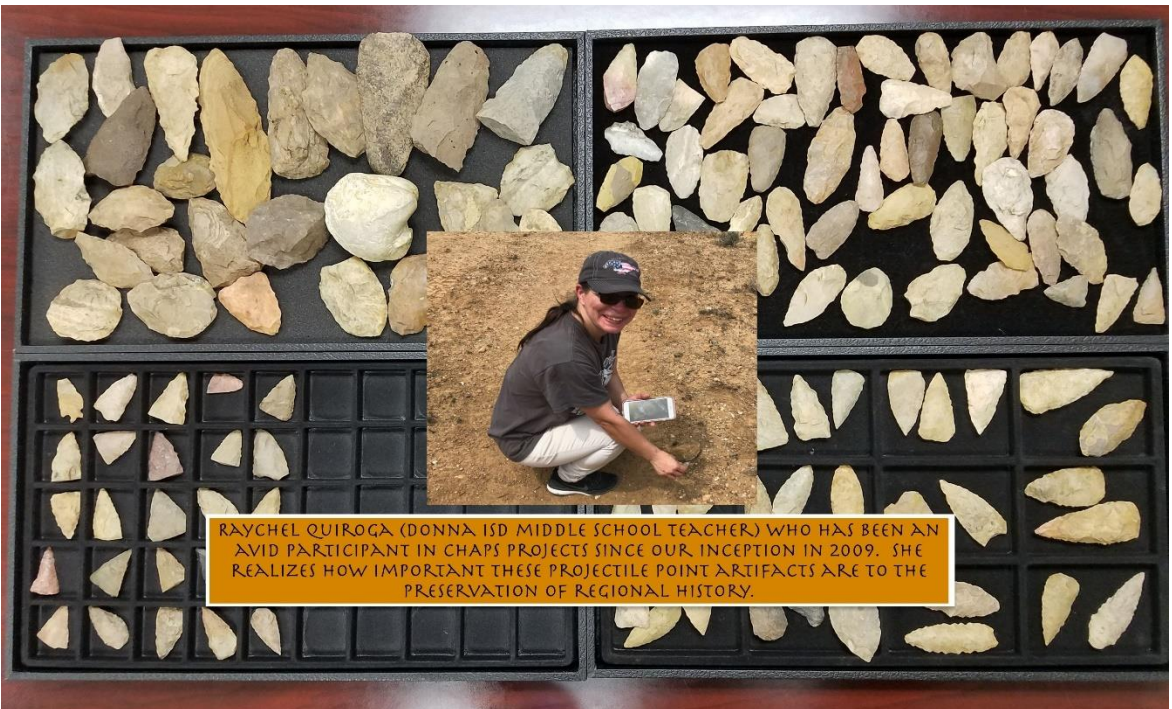


Image of Raychel Quiroga from the University of Texas Rio Grande Valley, CHAPS Program web page (accessed 8/4/2023)

## DESCRIPTIONS FOR EACH TYPE OF ARTIFACT

**Abasolo** A large triangular, unstemmed point with a well-rounded base. The edges are often beveled and the base may be thinned. May have impact fractures from use on lateral edges. Early to Middle Archaic, 6500 BCE to 2500 BCE, 2500 BCE to 1000 BCE. (Turner et al. 2011:56)

**Carrizo** An unstemmed triangular point with a deep notch in the center of the base. It may be made from heat treated chert and finely flaked. Middle Archaic 2500 BCE-1000 BCE. (Turner et al. 2011:69)

**Catán** (dart point) is a triangular, unstemmed point that has straight to slightly convex lateral edges that are sometimes beveled and a convex, well-rounded base that has been thinned by the removal of one or two broad, arc-shaped flakes. The outline is similar to Abasolo, but Catán points are smaller. Late Archaic 1000 BCE-300 BCE. (Turner, et al. 2011:73)

**Clear Fork Gouge** Triangular to sub-triangular outline, and sometimes lanceolate, ovate, or rectangular. Steeply beveled on the wide end which is the working end. Most edge angles will be 60-75 degrees. Small unifacial and bifacial forms from the Middle Archaic are found in the area of Abilene, Texas. Larger bifaces have been found in Paleoindian contexts and the Early Archaic. (Turner, et al. 2011:225)

**Desmuke** (dart point) is a small, lozenge-shaped point that has a characteristic contraction from the lower part of the body toward the base. The lateral edges are often alternately beveled and may be slightly serrated. Impact fractures are common, as is the use of heat-treated cherts. Late Archaic 1000 BCE-300 BCE. (Turner, et al. 2011:84)

**Early Triangular** (dart point) is a triangular point usually characterized by careful parallel-oblique flaking, straight to slightly concave bases, and alternately beveled lateral edges which may also be slightly serrated. Early Archaic 6500 BCE-2500 BCE. (Turner, et al. 2011:88)

**Edwards** (arrow point) Large, early, arrow point of South Texas and the southern coastal plain. Straight to convex lateral edges, and may be barbed or serrated. Expanding stem with prominent shoulders (Turner et al. 2022:190).

**Fresno** Unstemmed triangular point. Base may be straight, slightly concave, or slightly convex. Over 20 mm in length. Some may be preforms while finely chipped pieces represent a distinct type. Late Prehistoric 300 CE to 1600 CE. (Turner, et al. 2011:191)

**Graver** Generally these are flakes or a part of another tool, which have a distinct beak like protrusion. They are thought to be used for carving or engraving. (Turner, et al. 2011:231)

**Lerma** (dart point) is a slender and has a bi-pointed outline; longitudinal symmetry, and thus sometimes seems difficult to determine which is the proximal and which is the distal end. Lerma points are generally found in archaic contexts in south Texas and the coastal plain. Early Archaic 6500 BCE-2500 BCE. (Turner, et al. 2011:129)

**Matamoros** (dart point) is a small, often thick, triangular or sub triangular, unstemmed point that is similar to Tortugas, but markedly smaller. The average length of Tortugas is 4.9 mm – 6.7 mm and Matamoros ranges from 3.2 mm to 4.7 mm in length. Late Archaic 1000 BCE-300 BCE .(Turner, et al. 2011:133)

**Padre** A small triangular unstemmed point with a rounded base. may be similar to Fresno and Cameron. Late Prehistoric 700 CE to 1600 CE. (Turner et al. 2011:205)

**Pandora** An elongate, triangular point with a straight to slightly convex base. May be large and often crudely chipped. This type is poorly known and it may be a preform. Middle to Late Archaic. 2500 BCE to 1000 BCE, 1000 BCE to 300 BCE. (Turner et al. 2011:147)

**Scraper** Found in a wide range of shapes and forms and categorized by the position of their edge. (Side scraper, end scraper, discoidal scraper, etc.) Unifacial "button scrapers" are found in the Lower Rio Grande Valley. Most scrapers are made on large flakes or blades and are characterized by a steeply flaked working edge. Scrapers are found throughout Texas and across cultural periods. (Turner, et al. 2011:246-7)

**Tortugas** (dart point) are large, unstemmed, triangular points that have a slightly straight to concave base and alternately beveled edges. It is often thick and crudely flaked in the midsection and well-thinned basally. Middle Archaic 2500 BCE-1000 BCE. (Turner, et al. 2011:164)

**Uvalde** This type is broadly defined. Triangular elongate body with rounded shoulders and an expanding stem. Base is concave. They are sometimes grouped with Gower or Merrell or called "Early Corner Notched". Early Archaic 6500 BCE to 2500 BCE. (Turner, et al. 2011:167)

## SOURCES

Munsell Color (2009) *Munsell Soil-Color Charts*. Munsell Color, Grand Rapids, MI.

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