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having abstract open work inlaid with wood. These pieces are fastened to each side of a tang by rivets set at each end. The complete handle is 5 inches long; the blade is approximately the same length. Our fragmentary specimen is 38.5 mm. long, 18.5 mm. wide, and 2.0 mm. thick.

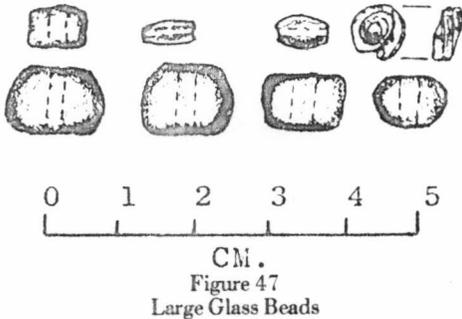
**NICKEL PLATED ARTIFACT**  
 Nickel Plated Pin (1 Specimen)

This specimen is blunt ended and rectangular in cross-section with a shaft that tapers from 10 by 7.5 mm. at one end to 7.0 by 6.0 mm. at the other. The length of the specimen is 86.5 mm.

**GLASS ARTIFACTS**

Large Glass Beads (25 Specimens, Fig. 47)

Nineteen glass beads and six glass bead fragments compose our sample of large glass beads. Two particularly interesting fragments are made of blue-green coils of spun glass 2.0



mm. in diameter, twisted into cords 7.0 and 5.0 mm. thick. A bead of basically similar construction is illustrated and identified by Orchard (1920: 90) as a Venetian glass bead of unusual character which gained very limited popularity among the Indians. Ten complete or nearly complete barrel-shaped beads, and four fragments resemble those pictured by Orchard (1920: 87-8) as "Corline de Allepo" or "Hudson's Bay Beads". These particular beads were favorites during the fur trade; consequently they became widely distributed. Six of the nearly complete specimens are blue, one is grey, one amber, one black, and one a deep, iridescent blue with splotches of a flaky silver substance on it. The ten complete specimens range in diameter from 5 to 15 mm., and in length from 5.0 to 10 mm. Three of the fragments are blue; one is amber. They range in diameter from 10 to 17 mm., and in length from

7.0 to 17 mm. Nine other glass beads are cylindrical in shape, but are longer and narrower. Four of these are of milky white glass, one of iridescent black glass, one green, one amber, and two others blue. They range in diameter from 3.0 to 7.0 mm. and in length from 5.0 to 12 mm.

Seed Beads (16 Specimens)

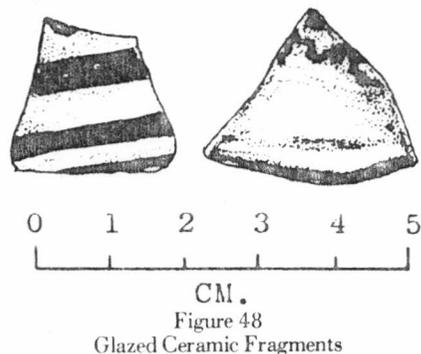
The seed beads are quite variable in shape and size, and many have an off-center perforation. Ten specimens are blue, four blue-green, one white and one green. The white bead is opaque; the blue and blue-green beads are pale in color and more or less translucent. These "seed" beads range in length from 1.5 to 4.0 mm., and in diameter from 3.0 to 4.0 mm.

Glass Bottle Fragment (1 Specimen)

We recovered a jagged basal portion of a square glass bottle; each of the sides has letters pressed in it. One side has the letters HE; another has MINT. A third side has ENCE OF, and the fourth has TEN. This bottle fragment clearly resembles a square glass bottle found in the excavation of historic Omaha burials in Dakota County, Nebraska. The latter bottle has BLYTHE stamped on one side, ESSENCE OF on another, PEPPERMINT on a third, and KING SPATEN on the fourth. The bottoms of both bottles have oval depressions in them and both were 22 mm. square and 3.0 mm. thick.

Glazed Ceramic Fragments  
 (5 Specimens, Fig. 48)

Our excavations yielded five glazed pottery fragments. Four are roughly triangular with one curved finished edge, and the fifth is rectangular. One fragment has a basic cream colored, glazed surface decorated with thin bands of gold,



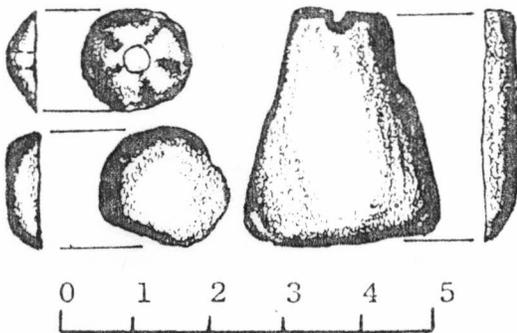
brown, and green. It is 195 mm. long, 10 mm. wide, and 3.2 mm. thick. Another fragment has a basic white glaze with a blue linear design. It is 28 mm. long, 124 mm. wide and 8.0 mm. thick. A third has a basic beige glaze, decorated with alternating black and brown stripes. The two remaining specimens are brown.

#### Green Glass Fragments (3 Specimens)

We found three fragments of light green glass. These are various shapes and range in length from 17 to 33 mm., in width from 13 to 24 mm., and in thickness from 2.0 to 7.0 mm.

#### Glass Ornaments of Native Manufacture (6 Specimens, Fig. 49)

Among the most interesting specimens in our glass collection are beads and flatwork ornaments produced by Arikara glass workers. According to Tabeau (Abel 1939: 148-49): "A Spanish prisoner taught them how to melt glass beads and to mould them into a shape that pleases them. This art which is as yet unknown to them is practiced only secretly and still passes for a supernatural and magical talent." The specimens described here were all moulded according to Tabeau's specification, but the cut and smoothed clear glass disc described later may well be the product of a craftsman not possessing the necessary magic.



CM.  
Figure 49  
Glass Ornaments of Native Manufacture

The four molded flatwork specimens are circular with plano-convex cross-sections, bluish-white in color, opaque in the thickened portions, and slightly translucent at the edges. Three of the four have a central perforation. The upper surface of each of these pieces tends to turn sharply upward at the perforation, forming a slight ridge. One of the perforated

pieces is plain; the other two are decorated. One decorated piece has an inlaid cast design composed of five white lines radiating from the central perforation to the edge and dividing the upper surface into five equal triangles. A single white inlay dot placed in the center of each triangle completes the decoration. This piece is 14 mm. in diameter and 5.0 mm. thick. The other decorated specimen has two yellow concentric inlaid circles; one about the central perforation, and the other about the edge. This piece is 16 mm. in diameter and 4.5 mm. thick. The undecorated specimen is broken approximately in half, but its maximum diameter did not exceed 20 mm., and it is 5.0 mm. thick. The non-perforated specimen is also broken but must have been roughly oval in outline and is plano-convex in cross-section. This piece is 10 mm. long, 15 mm. wide, and 5.0 mm. thick. The remaining piece of flatwork is sub-triangular in outline with rounded corners. It is plano-convex in cross-section, light blue in color and perforated at the narrowest end. It is broken at this point. The specimen is 31.5 mm. long, 26 mm. wide, and 5.8 mm. thick. One final crude, globular specimen is an amber bead with a slightly off-center perforation averaging 3.5 mm. in diameter. It is 10 mm. long and 11.5 mm. in diameter.

#### Green-Brown Glass Fragments (9 Specimens)

These glass fragments are a dark, iridescent greenish-brown color. One is a rim fragment, the rest appear to be broken from the bodies of cylindrical glass vessels, probably bowls, jars, or bottles. They range in length from 28 to 53 mm., in width from 15 to 40 mm., and in thickness from 1.0 to 9.0 mm.

#### Clear Glass Fragments (35 Specimens)

The excavators found 35 clear glass fragments of variable sizes and shapes. One triangular fragment is retouched on two edges by a native craftsman; another has two cut sides forming a right angle at one edge, and a third is cut and smoothed into a small disc. The rest are unmodified. These fragments range in length from 6.0 to 63 mm., in width from 1.5 to 42 mm., and in thickness from 1.0 to 3.0 mm.

#### COMPOSITE ARTIFACTS

##### Ornament? (1 Specimen)

This specimen is a partially charred oval-