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Pottery Analysis

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INTRODUCTION:

This paper is a description of pottery from a midden deposit at the Kings Hill Site in St. Joseph, Missouri. The deposit was excavated to a depth of six feet and revealed 3,044 body sherds, 105 rimsherds, and 15 handle fragments. The 105 rimsherds represent 99 vessels. However, no whole vessels were completely restored, and only two vessels could be restored to satisfactorily reveal shoulder profile and establish minimum and maximum diameter.

Field work suggests evidence of recent disturbance of the deposit occurring when the area was cleared for a road. Consequently, in the strictest sense, it is unlikely that the deposit is stratified. Homogeneity of the material is a complicating factor in this matter. However, the excavation was carried out in levels: 1-12 corresponding to 6" consecutive layers. The occurrence of historical materials in levels 1-3 only, is adequate evidence to support analysis of the levels separately and a comparison made among the separate levels. For this reason, the chart of body sherd analysis has been included and the description of vessels follow the excavation pattern by respective levels.

Homogeneity of paste, vessel form and decoration suggest the continuous deposit of a single pottery tradition. The collection conforms to the Oneota type.

SAMPLE: 3,044 body sherds, 105 rimsherds and 16 handle fragments.

Temper: Crushed shell is the only temper represented in the collection measuring from .5 mm. to 2.0 mm. in diameter. The particles have a parallel orientation, and the pottery is often fractured along these laminated planes.

Hardness: There is present a varying degree of compactness, but samples show little tendency toward crumbling. The pottery measures from 3.0 to 4.5 on the hardness scale.

Color: Color of paste varies from tan to dark gray in the middle and from light buff to orange-brown and dark gray on the exterior surfaces with considerable variation on a single vessel.

Surface Finish: Most of the pottery shows fine striations of a hand smoothing technique, with occasional nail impressions and finger prints at the rim and around the handles. A minority of sherds seemed to have been smoothed with a tool other than the hand. 489 of 3,044 sherds had a low luster polish - none were highly polished. Generally, the pottery is smoother on the exterior of the vessel than on the interior. Surface finish does not reveal the method of manufacture.

FORM:

Vessel Shape: The vessels appear to be mostly medium to large jars, globular or elliptical in shape with a constricted neck and a slightly flared or straight rim. There is also evidence of a few small jars and bowls. The jars have at least two handles which are tapered and decorated straps, or straight and undecorated strap handles.

Rim:

Rims are straight or slightly out-curving. A few approach being vertical. The rims generally taper toward the lip and are either flattened or rounded on the lip. Forty-seven of 99 vessels showed some decoration on the lip. Rim height varied between 15 mm. and 67 mm., with most vessels falling between 25 mm. to 45 mm.

Lip:

The lips are generally tapered, rounded or flattened. Of the forty-seven vessels that showed decoration on the lip, the most often used decoration is the fingertip width, or finger-width impression that give the lip a scalloped appearance. (See example , page 35.) Although finger prints were often discernable in the impression, there is no way to be certain this pattern was always made by the finger. Notches of varying width made across the width of the lip are the second most abundant lip design (examples a, b, d, page 35). These appear ~~in~~ diagonally or as straight lines across the width of the lip. Example "f" shows punctations made with a pointed stick. Only a few vessels showed this design. None of the designs are restricted to one level. (See Table II., page for distribution of patterns throughout the levels.

Base: There is no direct evidence to the contour of the base.

Neck: The necks of the medium and large sized utility jars are constricted.

Vessel Size: Only two vessels were complete enough to reveal the maximum diameter. One sample is a medium sized jar from level 8 having a diameter at the lip of 200 mm., with a maximum diameter of 420 mm. The second sample is a small bowl measuring 50 mm. in diameter at the lip and 80 mm. maximum diameter. By far the most abundant ware is the medium sized jars whose lip diameters vary within the 150 mm. - 300 mm. range. The largest diameter at the lip measured 420 mm. The smallest measured 50 mm.

Thickness: Vessels are generally thickest at the junction tapering to the lip and outward to the shoulder. Lip sherds vary within a 3 mm. to 10 mm. range, with the average of 5.8 mm.

Handles: Of sixteen handles, or handle fragments, 10 are tapered, decorated strap handles, and 6 plain, straight strap handles. Decorated, tapered handles are found in levels 1, 3, 4, 5, 7, 8 and 9. Undecorated, straight sided handles occur in levels 4, 6, 7 and 11. Place of handle attachments, which are either at the lip or slightly below it, and below the neck, are well blended into the vessel clay. Handles

Handles - (Cont'd.)

that show the point of attachment to be at the lip are found in levels 3, 5, 8 and 11. Handles whose upper point of attachment is 5 mm. to 8 mm. below the lip occur in levels 3, 6 and 7. The tapered strap handles varied in width at their upper point of attachment from 25 mm. to 50 mm., tapering to between 15 mm. and 35 mm. at the lower point of attachment. All tapering handles had impressions 7 mm. to 15 mm. in width, running the length of the handle. The impressions vary in number from 1 to 4 per handle. These handles range from 8 mm. to 12 mm. thick. At least three of the tapered, decorated handles have their upper attachment on the lip. At least one is attached below the lip. Straight sided, undecorated strap handles varied in width from 22 mm. to 30 mm., and in thickness from 8 mm. to 15 mm. No handle of this variety attaches at the lip.

Body Decoration: Other than lip and handle decoration, which were described in their respective sections, the collection of 3,044 bodysherds contained 2,377 unpolished sherds; 473 plain, polished sherds; 92 sherds with a powdered red substance on the interior; 6 sherds with the red

Body Dec-
oration:
(Cont'd)

substance on the interior; and exterior;
5
50 unpolished sherds with trailed lines, and
10 bodysherds revealed drilled holes. Refer
to Table I., page for the breakdown of these
traits by levels.

Trailed lines are designated as narrow
(1.5 mm.), medium (1.5-3.0 mm.), wide; 3-6 mm., and
finger width. Shallow lines are wider than they are
deep. Deep lines are deeper than they are wide.
Where trailed lines were used, they seem to run ver-
tically, or obliquely from the neck down toward the
shoulder of the vessel, or repeat the pattern at the
shoulder shown in illustration 1 and 2, page .

Patterns of punctations were revealed in two
body sherds. Photograph (g) right shows rounded
punctations made at an acute angle to the vessel.
Photograph (h) upper right, shows sharp punctations
made at an acute angle to the vessel.

There are no examples of cord marking or in-
cised lines in the collection. Evidence indicates
that lip decoration was the most common type of
decoration on large utility jars (2377 of 3044 body
sherds were plain and unpolished, however 47 of 105
rimsherds showed some decoration). Two small jar
rimsherds found in levels 9 and 10, drawings 1 and
2, page illustrate the only true patterns recognizable
in the collection.

Where red paint appeared, it was commonly on
the interior of the sherd. Since glaze, or paint

was not used as a decorative substance on pottery, it is likely that these sherds are what remains of vessels that held powdered hematite.

VESSEL DESCRIPTION

Level 1 - 1"-6"

- Vessel 1. Vessel one has a lip thickness of 10 mm., and a rim height of 17 mm. The vessel is part of a vessel 250 mm. in diameter at the lip. The lip is smooth and undecorated.
- Vessel 2. Vessel two is a vessel with a rim height of 31 mm. and a lip thickness of 85 mm. The vessel is composed of four pieces; two from Level 1 and one from Level 2, and one from Level 3. There appears to have occurred extensive leaching out of the shell temper. The pot has a very rough texture. Approximate lip diameter is 250 mm. The lip is pitted and shows very shallow finger indentations across the lip.
- Vessel 3. Vessel three has a rim thickness of 85 mm., a rim height of 31 mm., and a lip diameter of approximately 220 mms. Exterior and interior surface is well smoothed and has a fingertip width indentation on the lip.
- Vessel 4. The final vessel, vessel four of Level One, is relatively small with a rim thickness of 4.5 mm., and a rim height of 15 mm. Maximum diameter is 50 mm. The vessel has a slate gray exterior and a light gray interior. The lip is smooth and flat.

Level 2 - 6"-12"

- Vessel 5. Vessel number five has a straight lip, 5 mm. thick with an undetermined diameter. ~~No~~ches appear in

Level 2 - 6"-12" (Cont'd.)

Vessel 5. (Cont'd.)

the lip every 3 mm. or so. Shell temper has been leached out of the interior of the vessel.

Vessel 6. Vessel number six has a lip thickness of about 55 mm., a straight lip with shallow finger indentations more than 10 mm. apart. The exterior is dark slate colored and shows striations. Diameter is undetermined.

Vessel 7. Vessel seven is about 150 mm. in lip diameter with a lip thickness of 7 mm. and a straight rim. There appears fingertip width indentations on the otherwise smooth, flat, lip at 8 mm. intervals.

Vessel 8. Vessel eight is approximately 100 mm. in lip diameter and the rim is 5 mm. thick. The sample is composed of two fitted pieces, both from Level 2. Rim height is undetermined. The lip is smooth and rounded.

Vessel 9. Vessel nine has a rim height of 29 mm., a lip width of 7 mm., and a lip diameter of about 240 mm. The lip is smoothed and slightly flattened.

Vessel 10. Vessel ten is represented by a dark brown rimsherd 7 mm. thick at the rim, with a straight lip and a lip diameter of about 110 mm. The piece is very well smoothed - almost to a polish.

Vessel 11. Vessel eleven is 8 mm. thick at the lip, with a straight neck and a diameter of 100 mm. It has a well smoothed lip.

Level 2 - 6"-12" (Cont'd.)

Vessel 12. Vessel twelve is represented by a rim 7 mm. thick and 34 mm. high. The vessel is approximately 250 mm. in diameter at the lip. Shallow punctations appear at 2 mm. intervals on the lip.

Vessel 13. Vessel thirteen is a thin vessel measuring 3 mm. thick at the lip, and straight profile. The vessel may be a bowl of 120 mm. diameter at the lip. There appears on the rim some very fine, shallow, swirling lines, probably from smoothing with the hand. On the lip are notches 6 mm. apart and about 2 mm. wide, and 1 mm. deep.

Vessel 14. Vessel fourteen is 5 mm. at the lip and about 120 mm. in diameter at the lip. The lip is undecorated. The vessel is rough and does not show evidence of careful manufacture.

Vessel 15. Vessel fifteen has a rough texture measuring about 6 mm. thick at the lip with undetermined diameter and a straight rim. The lip is undecorated.

Level 3 - 12"-18"

Vessel 16. Vessel sixteen has a lip thickness of 8 mm., a rim height of 32 mm., and appears to be a vessel 210 mm. in diameter at the lip. The junction of shoulder and lip are narrower than the shoulder of the lip. There appears fine, narrow, shallow lines at the junction which seems to be caused by a smoothing technique.

Vessel 17. Vessel seventeen is represented by the largest whole sherd of the collection. The profile includes rim

Level 3 - 12"-18" (Cont'd.)

Vessel 17. (Cont'd.)

handle and shoulder out to the diameter of the pot. The lip is 9 mm. thick, and the rim is 39 mm. high. The diameter is 260 mm. at the lip. The vessel has a strap handle that joins at the lip. The lip is indented with fingertip width impressions almost touching one another. The exterior of the vessel is well smoothed, but dull, and shows shadows of uneven firing. The interior is not as well smoothed.

Vessel 18. This rimsherd has a rim thickness of 7 mm. and has a height of 26 mm., with a diameter of 230 mm. at the lip. The sherd represents the rim, part of the shoulder and point of handle attachment on the shoulder and on the lip. The handle is missing. The vessel is well smoothed inside and out with a well smoothed, thin and rounded, undecorated lip.

Vessel 19. Vessel nineteen is represented by a rim and junction 7 mm. thick at the lip, 42 mm. high, and approximately 230 mm. lip diameter. The interior and exterior surfaces show striation of smoothing. The lip has finger width impressions about 2 mm. deep and 13 mm. apart.

Vessel 20. Lip measured 7 mm. wide; the rim 41 mm. high. Lip diameter is 240 mm. The rim is straight and forms a sharp, nearly 90° angle at the junction with the shoulder. The vessel is composed of two rimsherds, both from Level 3. Interior and exterior are well smoothed, but not polished. Fine striations reveal

Level 3 - 12"-18" (Cont'd.)

Vessel 20. (Cont'd.)

a hand technique of smoothing. The lip is well rounded and smooth.

Vessel 21. Vessel twenty-one is a polished specimen composed of rim, shoulder and body. Lip thickness is 4 mm., rim height, 30 mm., with a lip diameter of 160 mm. The profile reveals a vessel that is at least as wide as it is tall, judging by the comparison of rim height to the sharp angle formed at the junction of rim and shoulder. Also, by the curve of the shoulder. Exterior surface showed evidence of hand smoothing. The lip is smooth and flat.

Vessel 22. The lip measures 7 mm. thick; the rim height is 33 mm. Diameter measures 160 mm. at the lip. Lip reveals round punctations 10 mm. apart and about 1 mm. deep. The contour of the straight rim and the shoulder forms an 100° angle at the junction, which shows characteristic smoothing lines.

Vessel 23. This piece is represented by two sherds, both from Level 3. Lip thickness is 3 mm., diameter is about 160 mm. Both rimsherds have a straight rim and well rounded, smooth lip. Red paint appears on the interior and exterior with a low luster polish.

Vessel 24. Vessel twenty-four has a lip thickness of 6.5 mm. and a straight rim. Diameter is undeterminable, but appears to be larger than 100 mm. Lip has diagonal notches across a flat lip about 3 mm. apart, 2 mm. wide, and 1 mm. deep.

Level 3 - 12"-18" (Cont'd.)

- Vessel 25. Vessel twenty-five has a rim thickness of 8 mm., a rim height of 25 mm., with a diameter at the lip of 200 mm. Junction shows narrow lines suggesting the smoothing tool used was other than finger or hand. Lip is smooth, rounded and undecorated.
- Vessel 26. This rim is straight with a lip thickness of 6 mm. Diameter cannot be determined. The rim shows the point of a handle attachment about 8 mm. below the lip. Fingertip impressions appear at regular intervals 5 mm. apart on the lip.
- Vessel 27. Vessel twenty-seven is represented by a rimsherd which is also the upper attachment of the handle. The flat top of the handle forms part of the lip. The strap handle shows three finger width impressions that follow the length of the handle. Diameter of the vessel and rim height cannot be determined.
- Vessel 28. The lip thickness is 6 mm., and rim height cannot be determined. Diameter at the lip is 180 mm. Lip is rounded and smoothed. Interior and exterior show fine smoothing striations.
- Vessel 29. Rim is straight with a lip thickness of 7 mm. Diameter of the vessel could not be determined. The representative sherd is a uniform, grainy, slate gray, interior and exterior. The lip shows round

Level 3 - 12"-18" (Cont'd.)

Vessel 29. (Cont'd.)

punctations less than a millimeter deep, spaced evenly about 2 mm. apart. The lip is tapered compared with the rest of the rim, but is flat on top. Exterior is well smoothed; interior is not as well smoothed.

Vessel 30. The straight lip measures 4 mm. in thickness. The vessel's diameter is approximately 150 mm. at the lip. Interior and exterior of the vessel show smoothing striations. The lip is smooth and flat. There appears elongated, oval punctations, deepest (about 1 mm.) in the center. They measure about 2 mm. in width and are placed at 4 mm. intervals.

Vessel 31. The representative rimsherd measured 12 mm. in height and 5 mm. in thickness. Diameter is 140 mm. at the lip. Interior and exterior of sherd is well smoothed, almost to a polish. Striations appear inside and out. The lip is rounded, and well smoothed.

Vessel 32. Vessel thirty-two has a straight rim, 4 mm. thick, with a diameter of 200 mm. at the lip. The piece is well smoothed exteriorly, showing striations, and is rough on the interior. The sherd shows dark shadows of uneven firing. The lip is undecorated and chipped.

Level 3 - 12"-18" (Cont'd.)

Vessel 33. Vessel thirty-three is represented by a very well smoothed (showing no striation), but unpolished, rimsherd 8 mm. thick. The rim height and diameter measurements are inconclusive. The lip is well rounded, showing no decoration.

Level 4 - 18"-24"

Vessel 34. The representative rimsherd is composed of the rim and shoulder of the vessel. The vessel is a uniform light gray on the interior. The exterior is buff with dark gray clouds. Rim height is 36 mm., lip thickness, 7 mm., and diameter at the lip is 210 mm. The lip is slightly flared from the junction, is well smoothed and rounded. Striations appear on interior and exterior at the rim from the junction to the lip. A hole is drilled at the junction. It measures about 3 mm. on the exterior surface of the vessel and 2 mm. on the interior.

Vessel 35. This vessel measured 8 mm. thick at the lip, and has a rim height of 36 mm. Diameter measurements are inclusive, however, the vessel is larger than 130 mm. in diameter. The lip is smooth and flat and shows no decoration of striations. The rim to the junction shows pronounced striations on interior and exterior surfaces.

Vessel 36. Vessel thirty-six measures 8 mm. at the lip and 42 mm. in rim height. It has a diameter at the lip of 230 mm. The rim is straight and forms an

Level 4 - 18"-24" (Cont'd.)

Vessel 36. (Cont'd.)

angle of about 100° with the shoulder at the junction. Striations appear on interior and exterior surfaces on the rim to the junction. The interior of shoulder shows evidence of being pinched or pressed from the inside while being smoothed. Lip is rounded and smooth with shallow fingertip impressions occurring at 25 mm. intervals.

Vessel 37. Vessel thirty-seven measures 6 mm. at the lip. The rim height is 28 mm., and is straight. Diameter measurements are inconclusive. Lip and rim are smooth, however, no striations are apparent.

Vessel 38. Lip thickness measures 5 mm., rim height, 30 mm., and diameter at the lip is 150 mm. Rim is straight, forming about a 100° angle with the shoulder at the junction. Smoothing striations appear at the junction of exterior surface and on the shoulder area on the interior surface of the vessel. The lip is chipped, but otherwise rounded and smooth.

Vessel 39. The representative sherd consists of rim and shoulder. Lip thickness is 5 mm., rim height, 34 mm., and diameter at the lip is 260 mm. The rim is slightly flared from the junction, and the lip shows very shallow, wide finger width indentations nearly touching one another. Lines less than 1 mm. wide appear on the rim which follows no apparent pattern. They may be nail impressions made during the manufacture of the vessel.

Level 4 - 18"-24" (Cont'd.)

Vessel 40. Lip thickness is 9 mm. Rim height and vessel diameter cannot be determined. The rim is straight and shows the point of handle attachment 10 mm. below the lip. The handle is missing. Interior and exterior surfaces are very rough, showing evidence of extensive leaching out of temper material. The lip is round and chipped.

Vessel 41. Vessel forty-one has a lip thickness of 10 mm. The rim is straight. The lip is smooth and rounded. Diameter measurements cannot be determined. The exterior surface is gray, flat, and grainy. The interior shows fingerprints and has a reddish-yellow color. The vessel could have possibly contained red pigment.

Vessel 42. Lip thickness measures 7 mm., rim height, 26 mm. The rim is relatively straight. Striations appear on the exterior from junction to lip. The interior is well smoothed and shows no striations. The lip shows notches 2 mm. apart, 1 mm. deep, and 2 mm. across.

Vessel 43. Vessel forty-three is represented by a uniformly dark gray rimsherd 4 mm. thick at the lip, 2 mm. high at the rim, and a measurement of approximately 180 mm. diameter at the lip. No striations are apparent, however, the sherd is well smoothed on the inside and outside. The lip is flattened and fingertip impressions 2 mm. deep appear at 10 mm. intervals.

Level 4 - 18"-24" (Cont'd.)

- Vessel 44. Vessel forty-four measures 7 mm. thick at the lip, 52 mm. in rim height, and 275 mm. in lip diameter. The rim is straight and smooth with striations on interior and exterior surfaces. The lip is tapered, undecorated, and smooth.
- Vessel 45. Lip thickness measures 6 mm. with a rim height of 38 mm. The lip diameter measures 200 mm. Exterior of the sherd is grainy and dark gray. The interior is light brown and shows striations from the lip to the junction. The lip is smoothed, tapered and undecorated.
- Vessel 46. Vessel forty-six measures 6 mm. at the lip. The rim is straight. The height could not be determined by the sample. Measurements of the diameter are not conclusive, however, the vessel appears to be at least 260 mm. in diameter at the lip. The exterior is smooth; the interior of the rim shows striations. The lip is rounded and smooth and the sample sherd showed a fingertip width impression approximately 2 mm. deep.
- Vessel 47. Vessel forty-seven is a relatively small vessel measuring 110 mm. lip diameter, with a rim height of 8 mm., and a lip thickness of 4 mm. The rim is straight, showing striations on interior and exterior surfaces. The lip is tapered, smooth, and undecorated.

Level 5 - 24"-30"

Vessel 48. Vessel forty-eight has a very tall, straight rim measuring 53 mm., and forms about a 110° angle with the shoulder at the junction. The lip measures 6.5 mm. thick, and is flat, smooth and undecorated. The vessel shows striations on interior and exterior surface from the junction to the lip. Lip diameter is 260 mm.

Vessel 49. The rim measures 41 mm. in height. It is straight and shows fine smoothing striations from the shoulder to the lip. The lip measures 6 mm. thick, and is tapered, smooth, and rounded. The vessel is large - measuring 280 to 300 mm. in diameter.

Vessel 50. The representative rimsherd of vessel fifty measures 38 mm. from the junction to the lip, and the lip measures 6 mm. thick. The lip is flat and undecorated and is the point of attachment of a handle measuring 40 mm. across at the lip, tapering to 28 mm. at the point of attachment on the shoulder. The handle has three finger width lines touching one another, running the length of the handle. There is evidence of pinching and molding at the base of the handle. The interior and exterior of the vessel is rough and shows no smoothing marks.

Vessel 51. Vessel fifty-one measures 8 mm. at the lip, 23 mm. in rim height, and has a lip diameter of 240 mm. The sherd is an even buff color on the interior and exterior surfaces, and is light gray internally.

Vessel 51. (Cont'd.)

The lip is rounded and the sample shows a finger width impression about 2 mm. deep on the lip. Two impressions that may be fingernail marks appear on the exterior surface of the rim near the junction.

Vessel 52. Vessel fifty-two has a thick, notched lip measuring 8 mm. in thickness. Rim height is 22 mm., with a diameter at the lip measuring 210 mm. The exterior of the vessel is light buff in color, showing fine striations. The notch in the otherwise smooth, rounded lip, is 5 mm. deep, 2 mm. wide, and appears to be impressed in the clay with a flat instrument while the clay was still very wet.

Vessel 53. Vessel fifty-three has a tapered lip 5 mm. thick, which is rounded and smooth. The rim is straight and shows fine striation of smoothing on the interior and exterior surfaces. The vessel measures 250 mm. in lip diameter. The lip has very shallow fingertip width impressions touching one another.

Vessel 54. The vessel measures 4 mm. thick at the lip, with a rim height of 17 mm. The diameter could not be determined, but the vessel is probably smaller than 160 mm. at the lip, and larger than 100 mm., based on rim height and lip thickness. The rim is slightly flared in respect to the shoulder. The surfaces are smooth without striations. The lip is rounded.

Level 5 - 24"-30"

Vessel 54. (Cont'd.)

The specimen reveals notches less than 1 mm. deep, about 1 mm. wide, and about 3 mm. apart.

Vessel 55. The straight rim measures 4 mm. at the lip. Rim height and diameter of the vessel is undetermined. The interior of the vessel shows finger prints. The lip has notches 3 mm. apart, 2 mm. wide, and about 2 mm. deep.

Vessel 56. Vessel fifty-six is a small vessel measuring 125 mm. in diameter at the lip, and 4 mm. thick through the lip. The sherd is dark gray on interior and exterior surfaces. The piece is well smoothed and has a low luster polish. Fine striations appear on the interior of the vessel.

Level 6 - 30"-36"

Vessel 57. Lip thickness measures 8 mm. The rim height is 58 mm., and the lip diameter is 310 mm. The rim is straight and forms about a 130° angle with the shoulder at the junction. Striations appear at the junction and up to the lip. There are fingertip impressions 3 mm. deep and about 6 mm. apart on the lip made when the clay was still very wet. Scratches appear sporadically on the interior surface of the vessel shoulder. The outside shoulder is smooth.

Vessel 58. Vessel lip thickness measures 8.5 mm. Rim height is 67 mm. Lip diameter measures 340 mm. The rim is straight and shows no smoothing marks. The lip is rounded and undecorated.

Level 6 - 30"-36"

- Vessel 59. Vessel fifty-nine measures 36 mm. in rim height and 8 mm. thick at the lip. Maximum diameter measures 265 mm. Fine striations appear on the interior and exterior surfaces on the rim. The lip is rounded, smooth, and undecorated, but reveals the point of handle attachment on the lip.
- Vessel 60. Rim height measures 30 mm. with a lip thickness of 6 mm., and a lip diameter of 240 mm. The sample shows no striations. The lip is round, smooth, and undecorated.
- Vessel 61. Vessel sixty-one measures 38 mm. in rim height, 7.5 mm. at the lip, and 220 mm. in diameter at the lip. The rim is straight, the exterior showing striation near the lip only. The lip has notches 2 mm. wide, 1 mm. deep, and 8 mm. apart running the width of the lip.
- Vessel 62. Vessel sixty-two is represented by two unfitted pieces, both from Level 6. Both have rim heights of 36 mm. and rim thicknesses of 7 mm each. Diameter of the vessel is undetermined. The sherds show striations on the exterior of the vessel at the junction, and each piece shows similar punctations in the lip. The punctations are shallow, measuring about 3 mm. deep, and they appear to be made by a fingertip while the clay was wet.
- Vessel 63. Vessel sixty-three is represented by a rimsherd measuring 6 mm. thick at the lip. The lip is

Level 6 - 30"-36" (Cont'd.)

Vessel 63. (Cont'd.)

tapered, but the rim height is undetermined, as is the diameter. 8 mm's. below the lip is a point of handle attachment. The handle is missing. Toward the inside of the lip a punctation 3 mm. deep in the center, and round, measured about 5 mm. across. The decoration was applied when the clay was wet.

Vessel 64. Vessel sixty-four has a lip width of 5 mm., a straight rim of an undetermined height. The lip diameter measures 260 mm. The rim shows no striations. A fingertip impression about 8 mm. wide and 3 mm. deep appears on the sample lip. The finger print is visible, so the impression must have been made while the clay was still fairly wet.

Level 7 - 36"-42"

Vessel 65. Lip thickness measures 7 mm., and rim height measured 52-56 mm. Lip diameter is 360 mm. The rim is straight and forms about a 100° angle with the shoulder at the junction. A strap handle measuring 65 mm., has an upper attachment 10 mm. below the lip and tapers to 55 mm. at the lower point of attachment, about 25 mm. below the junction on the shoulder. Three finger width impressions run vertically the length of the handle. Notches 2 mm. deep and 5 mm. apart have been pressed across the

Level 7 - 36"-42" (Cont'd.)

Vessel 65. (Cont'd.)

width of the lip. They appear to have been made with a blunt, flat object. Striations appear under the handle at the junction and on the interior of the vessel at the junction and on the shoulder.

Vessel 66. Vessel sixty-six measures 6 mm. thick at the lip, 64 mm. in rim height, and 280 mm. in diameter at the lip. The rim is slightly flared, showing the place of handle attachment 12 mm. below the lip. The handle is missing. Finger prints are revealed in the impressions on the lip which occur generally about every 8 mm. They vary in depth. The sample has a rough texture and shows no smoothing marks.

Vessel 67. Lip thickness is 6 mm. Rim height is 43 mm., and the diameter at the lip is 400 mm. The rim is slightly flared, forming about a 90° angle with the shoulder at the junction. The rim shows striations near the lip only. Punctations of varying depth and size have been pressed into the clay with a sharp object at a 45° angle, giving the punctations a triangular shape.

Vessel 68. Vessel sixty-eight measures 180 mm. in lip diameter with a lip thickness of 6 mm., and rim height measuring 30 mm. The rim is straight and shows on the exterior of the vessel, fine lines of smoothing. I

Level 7 - 36"-42" (Cont'd.)

Vessel 68. (Cont'd.)

could not determine if they were made by the hand or another tool. The lip has shallow fingertip width indentations at 10-15 mm. intervals. The lip is otherwise smooth and rounded.

Vessel 69. Lip thickness measures 5 mm., rim height measures 38 mm., and the diameter is 200 mm. at the lip. The rim is straight with pronounced striation from the junction to the lip. The lip has fingertip impressions 3 mm. apart - 22 mm. deep. They were applied when the clay was still very wet.

Vessel 70. Lip thickness measures 5 mm., rim height, 29 mm., and the diameter at the lip is 120 mm. The rim is straight. The lip is smooth, undecorated and rounded. Striations are visible at the lip.

Vessel 71. Lip thickness is 6 mm., and the vessel measures 30 mm. from the junction to the lip. The diameter could not be determined. The rim is straight and has pronounced striations from the junction to the lip. The lip has a rough texture, but is undecorated.

Vessel 72. Vessel seventy-two has a straight rim measuring 43 mm. high. Lip thickness is 6 mm. Diameter at the lip measures 260 mm. The rim is well smoothed showing no striations. The sample sherd shows a fingertip width indentation on the lip approximately 3 mm. deep. The lip is otherwise well smoothed and rounded.

Level 7 - 36"-42" (Cont'd.)

- Vessel 73. Vessel seventy-three measures 32 mm. high at the rim, 6 mm. thick at the lip, and has a lip diameter of 260 mm. The rim is straight and shows place of handle attachment 3 mm. from the lip. Striations appear on interior of the rim only. The lip is tapered and wide finger width impressions are pressed about 3 mm. into the lip.
- Vessel 74. Diameter at the lip measures 260 mm., and lip thickness, 6 mm. The rim is straight. The height is undetermined. Pronounced striations can be seen on the exterior of the rim. The lip and interior of the neck is rough. The lip is undecorated.
- Vessel 75. Vessel seventy-five measures 7 mm. thick at the lip and has a rim height of 32 mm. The diameter is undetermined. Striations appear on the exterior of the vessel near the junction. The otherwise smooth, rounded lip has been pressed with a rounded object. The punctations measure 3 mm. in diameter about 5 mm. apart, and 2 mm. deep.

Level 8 - 42"-48"

- Vessel 76. Vessel seventy-six has a diameter at the lip of 200 mm., and the maximum diameter measured 420 mm. Lip thickness measured 6 mm., and rim height, 45 mm. The sample is composed of two fitted pieces, both from Level 8. The rim is straight and the lip is smooth, flat and undecorated. Numerous fine

Level 8 - 42"-48" (Cont'd.)

Vessel 76. (Cont'd.)

lines and scratches appear from the junction to the lip on the exterior of the vessel. They seem to be left from smoothing during manufacture.

Vessel 77. Vessel seventy-seven measures 260 mm. in diameter at the lip with a lip thickness of 5 mm. The lip is tapered and the vessel thickens abruptly at the junction where it measures about 11 mm. thick. Rim height is 48 mm., and the rim is straight. Fingertip impressions leaving fingerprints appear at about 8 mm. intervals on the lip. Striations are visible at exterior junction of the vessel.

Vessel 78. Diameter at the lip measures 200 mm. Lip thickness measures 8 mm., and the rim height measures 48 mm. The round, undecorated lip is the point of handle attachment. The top of the handle, which is intact, has a line 8 mm. wide and 2 mm. deep running at a 45° angle from the outside of the vessel lip toward the center of the handle. The exterior of the vessel is rough; the interior is smooth and shows striations at the junction.

Vessel 79. The diameter at the lip is 180 mm. The rim height is 40 mm., and the lip thickness is 6 mm. The rim is straight and shows numerous fine lines and striations from the junction to the lip on interior and exterior surfaces. The lip is smooth, rounded and undecorated.

- Vessel 80. Vessel eighty measures 240 mm. in diameter at the lip with a lip thickness of 5 mm. The rim is straight and measures 28 mm. high. The rim shows striations on the exterior surface. The flat rim shows diagonal notches running from the inside to the outside of the lip. The notches measure 1 mm. across and 1 mm. deep and appear to have been made with the side of a flat, blunt object when the clay was still wet.
- Vessel 81. The diameter is undetermined. Lip thickness measures 6 mm. and rim height, 38 mm. The rim is straight, tapering to a rounded, undecorated lip. The exterior of the rim shows striations.
- Vessel 82. The diameter at the lip measures 240 mm. Rim height is 45 mm. The rim is straight and reveals striation on the exterior from the junction to the lip. The lip measures 7 mm. thick and is rounded and smooth except for a finger width, shallow impression less than 2 mm. deep.
- Vessel 83. Diameter at the lip measures 240 mm. The rim height is undetermined. Fingerprints are visible on the exterior surface of the rim. The lip measures 6 mm. thick and is tapered and well smoothed. Notches 2 mm. wide and 1 mm. deep in the center were pressed horizontally across the width of the lip at 4 mm. to 10 mm. intervals.
- Vessel 84. Vessel eighty-four measures 5 mm. thick at the lip. Rim height and diameter at the lip are undetermined.

Level 8 - 42"-48" (Cont'd.)

Vessel 84. (Cont'd.)

however, the vessel is larger than 250 mm. at the lip. The representative rimsherd is straight with a rough texture and pronounced striations on the interior and exterior surfaces of the rim. The lip is flat and smooth. The sample shows a finger width impression pressed 3 mm. into the lip.

Vessel 85. Vessel eighty-five measures 5 mm. at the lip. The rim is broken near the lip so the rim height could not be determined. The diameter at the lip measures 160 mm. The lip is tapered and well smoothed. In the lip is impressed "V" shaped notches 4 mm. apart, 2 mm. wide, and 2 mm. deep at the center. These notches are horizontal to one another running across the width of the lip. Finger prints and striations are apparent on the interior of the rim.

Vessel 86. Vessel eighty-six measures 210 mm. in diameter at the lip. The rim is straight and measures 38 mm. high. Pronounced scratches and striations appear from the junction to the lip on exterior and interior of the rim. Lip thickness measures 7 mm. The lip has a rough texture and is undecorated.

Vessel 87. Vessel eighty-seven measures 210 mm. in diameter at the lip; 5.5 mm. in lip thickness. The rim height measures 37 mm. The rim is straight with a rough texture and no striations. 10 mm. below

Level 8-42"-48" (Cont'd.)

Vessel 87. (Cont'd.)

the lip is a point of handle attachment. The lip also has a rough texture with "V" shaped impressions 4 mm. apart, and 2 mm. deep.

Vessel 88. Vessel eighty-eight measures 110 mm. at the lip. The rim is straight and untapered with a rough texture, but no striations. The rim height is undetermined. The lip measures 4 mm. thick. It is rounded, but undecorated.

Vessel 89. Vessel eighty-nine has a diameter at the lip of 200 mm. The rim height is undetermined. The exterior surface of the sherd shows evidence of polishing, possibly just from use. The straight rim tapers to a lip 7 mm. thick. The lip is smooth, rounded and undecorated.

Level 9 - 48"-54"

Vessel 90. Diameter at the lip measures 100 mm. The rim is straight, forming about a 100° angle with the shoulder at the junction. The rim tapers slightly to the lip which measures 3.5 mm. thick. The lip is smooth and undecorated. There are scratches and striations at the junction on the interior and exterior of the vessel.

Vessel 91. Vessel ninety-one measures 210 mm. in diameter at the lip. The rim is straight and untapered. Rim height measurements are undetermined. Interior and exterior of the rim show striations.

Level 9 - 48"-54"

Vessel 91. (Cont'd.)

The exterior is polished. The lip is well smoothed, rounded and undecorated.

Vessel 92. Vessel ninety-two measures 280 mm. at the lip. The straight rim measures 37 mm. The rim tapers slightly to the lip which measures 7 mm. thick. The interior at the junction and the exterior at the lip show striations. The vessel is otherwise rough in texture. A leaf impression is visible on the rim near the lip. The leaf measures 32 mm. long, and 10 mm. wide at the middle. Impressions that appear to be made with the side of a stick appear at 6-12 mm. intervals. The impressions are 3 mm. deep. It seems to have been made while the clay was quite wet as fiber of the wood can be seen in the impression.

Vessel 93. Vessel ninety-three measures 6.5 mm. thick at the lip. The rim is straight and untapered. Rim height is 37 mm. Diameter at the lip is undetermined. 8 mm. below the lip is a point of handle attachment. Directly above that point are two shallow thumbprints next to one another. The lip is rounded and undecorated. No striations are visible.

Vessel 94. Vessel ninety-four measures 160 mm. in diameter at the lip. Lip thickness measures 7 mm. Rim

Level 9 - 48"-54" (Cont'd.)

Vessel 94. (Cont'd.)

height is 26 mm. The rim is straight, untapered, and well smoothed. Striations occur on the exterior of the rim. The lip is smooth, showing striations and elongated oval diagonal impressions across the width of the lip. They measure 3 mm. deep and 4 mm. apart.

Vessel 95. Diameter at the lip measures 60 mm. The lip is 4.5 mm's. thick. The lip is flared, tapered, well rounded, and smooth. Rim height measures 20 mm. During manufacture, the rim had been pinched just below the lip every 5 mm. or so, leaving shallow thumb width impressions on the exterior of the rim and striations on the interior of the lip. The shoulder design is composed of narrow, smoothed-over, trailed lines. The pattern is illustrated on page , drawing .

Level 10 - 54" - 60"

Vessel 96. Diameter measures 140 mm. at the lip. The rim is tapered toward the lip, and straight. The exterior is dark gray and polished. There are no striations. Rim height is undetermined. Lip thickness measures 5 mm. The lip is smooth and tapered and undecorated.

Vessel 97. Diameter measures 60 mm. at the lip. Rim height is 4 mm. Lip thickness measures 3 mm. Minimum diameter measures 50 mm; 80 mm., maximum diameter.

ONEOTA PROJECT

KEY: BODY-SHERD CATALOGUE CARDS

1. AREA: S - SHOULDER
J - NECK: JUNCTION, RIM & SHOULDER
PM - PT OF MAXIMUM DIAMETER

2. TEMPER S - SHELL
G - GRIT
S/G - COMBINED SHELL & GRIT
GR - GROG

3. EXTERIOR SURF. FINISH
SM/TR - SMOOTHED OVER TRAILED:
(RIDGES ABSENT)
TR - RIDGES REMAIN
CM - CORDMARKED
P/TR - POLISHED OVER TRAILED
(REFLECTS LIGHT)

4. RED PAINT
CHECK INTERIOR OR EXTERIOR
IF NO RED PAINT, LEAVE BLANK

5. LINES: WIDTH DEPTH INTAGLIO
N - 1.5 mm S: SHALLOW IF PRESENT
M - 1.5-³5.0 mm D: DEEP "
W - ~~5-0~~ ³⁻⁶ mm "
F - FINGER "

6. DASH WIDTH: SAME AS 5.

7. PUNCTATIONS WIDTH ANGLE INTAGLIO
S: SHARP, POINTED R: RIGHT IF PRESENT
RN: ROUNDED, -1.5¹⁵⁻³ A: ACUTE
RM: ROUNDED, 1.5-³5.0 S: STRAIGHT
RW: ROUNDED, ³+⁶0
F: FINGER