

The Economy and Archaeology of
European-made Glass Beads and Manufactured
Goods Used in First Contact Situations in Oregon,
California and Washington

DONALD SCOTT CRULL

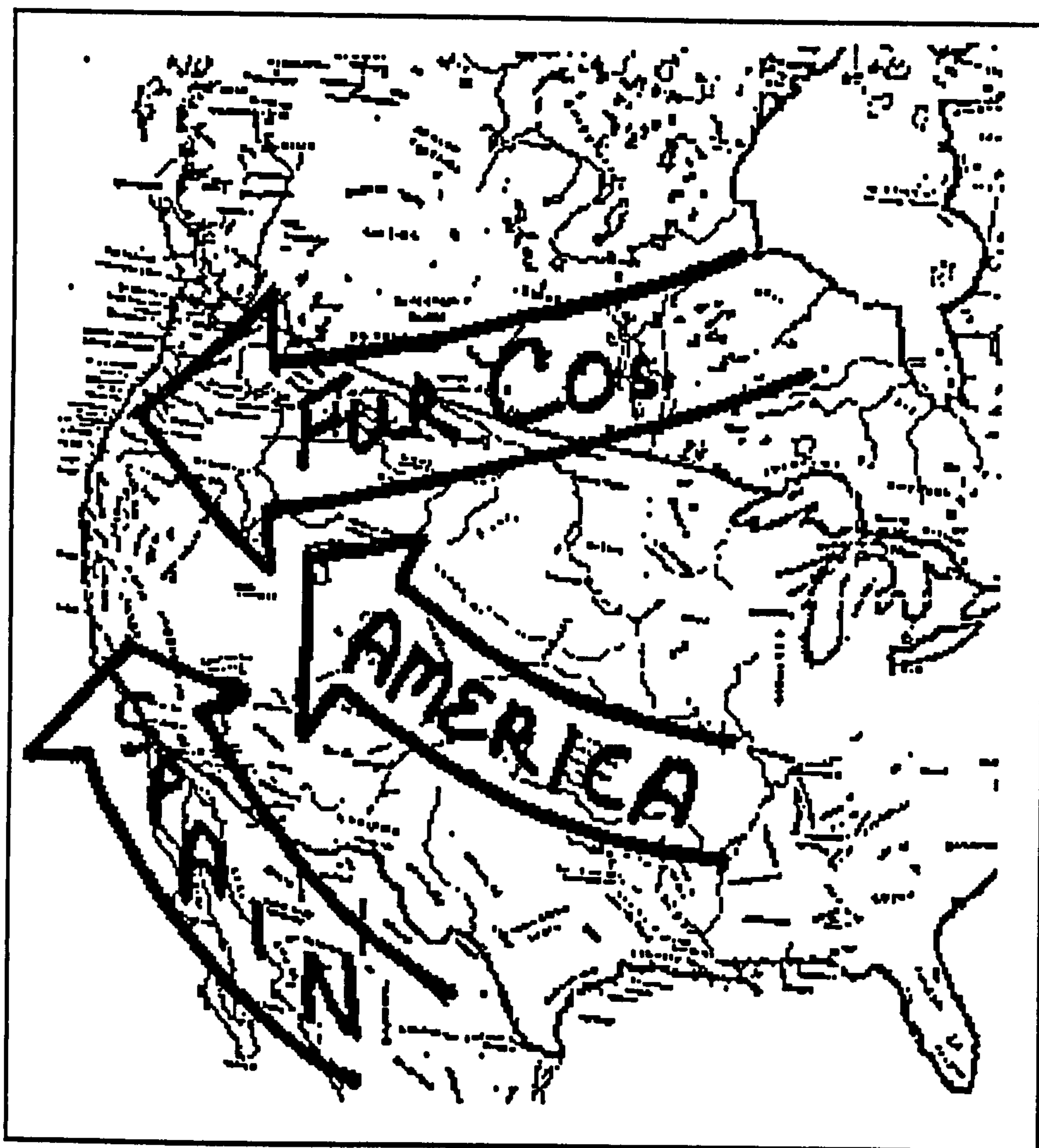
Thesis Submitted for the Degree of Ph.D.

Department of Archaeology and Prehistory

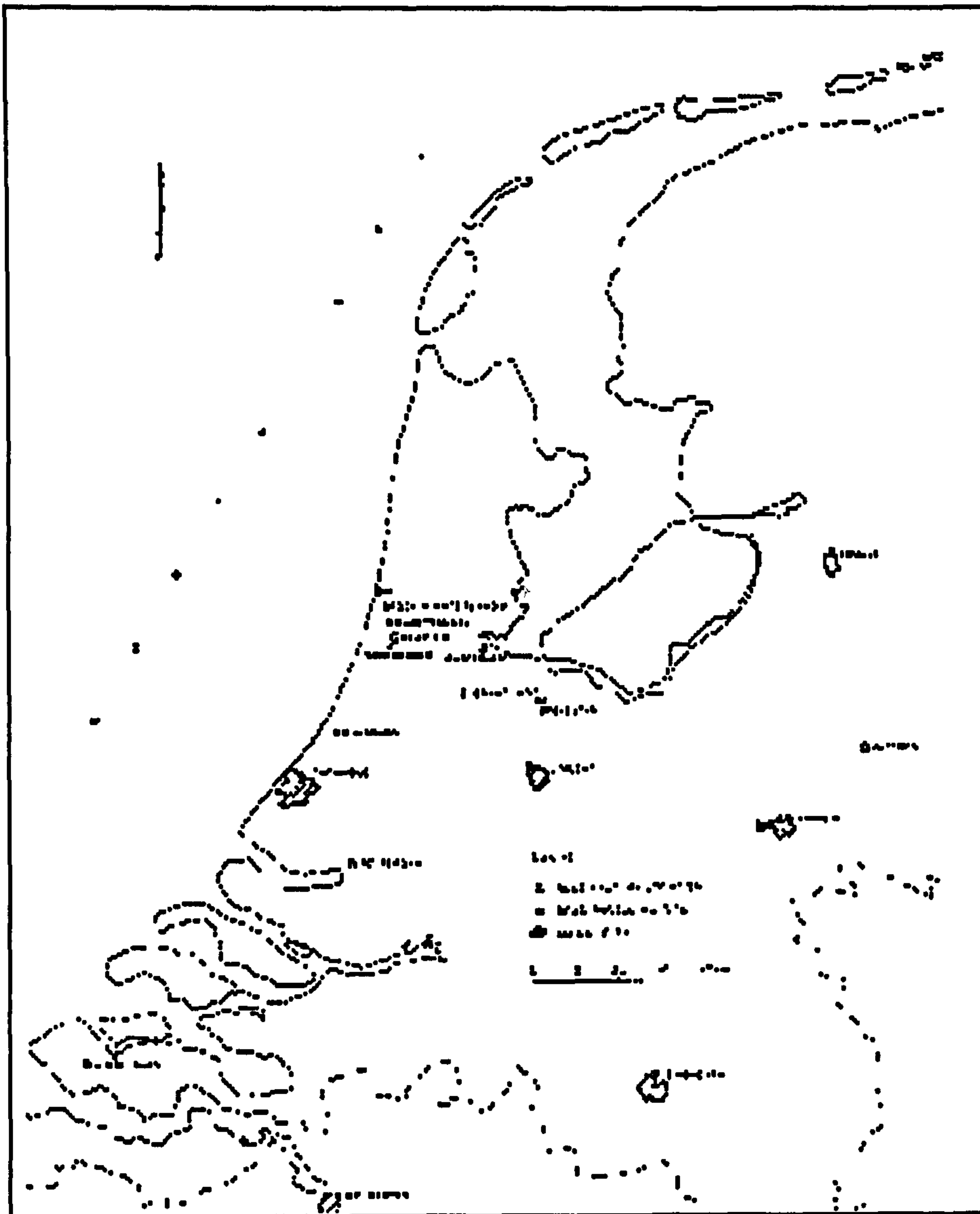
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September 1997

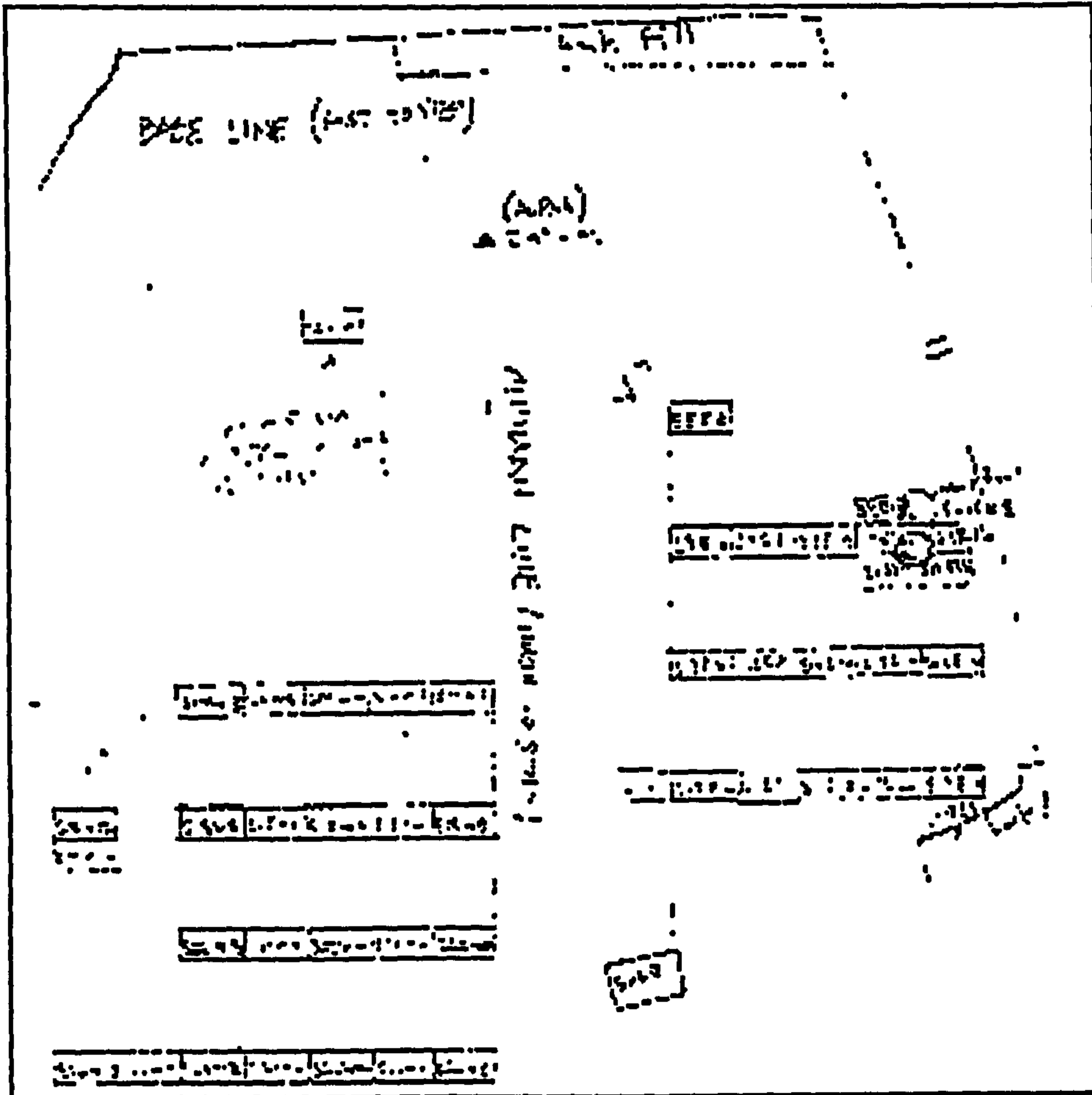
VOLUME II



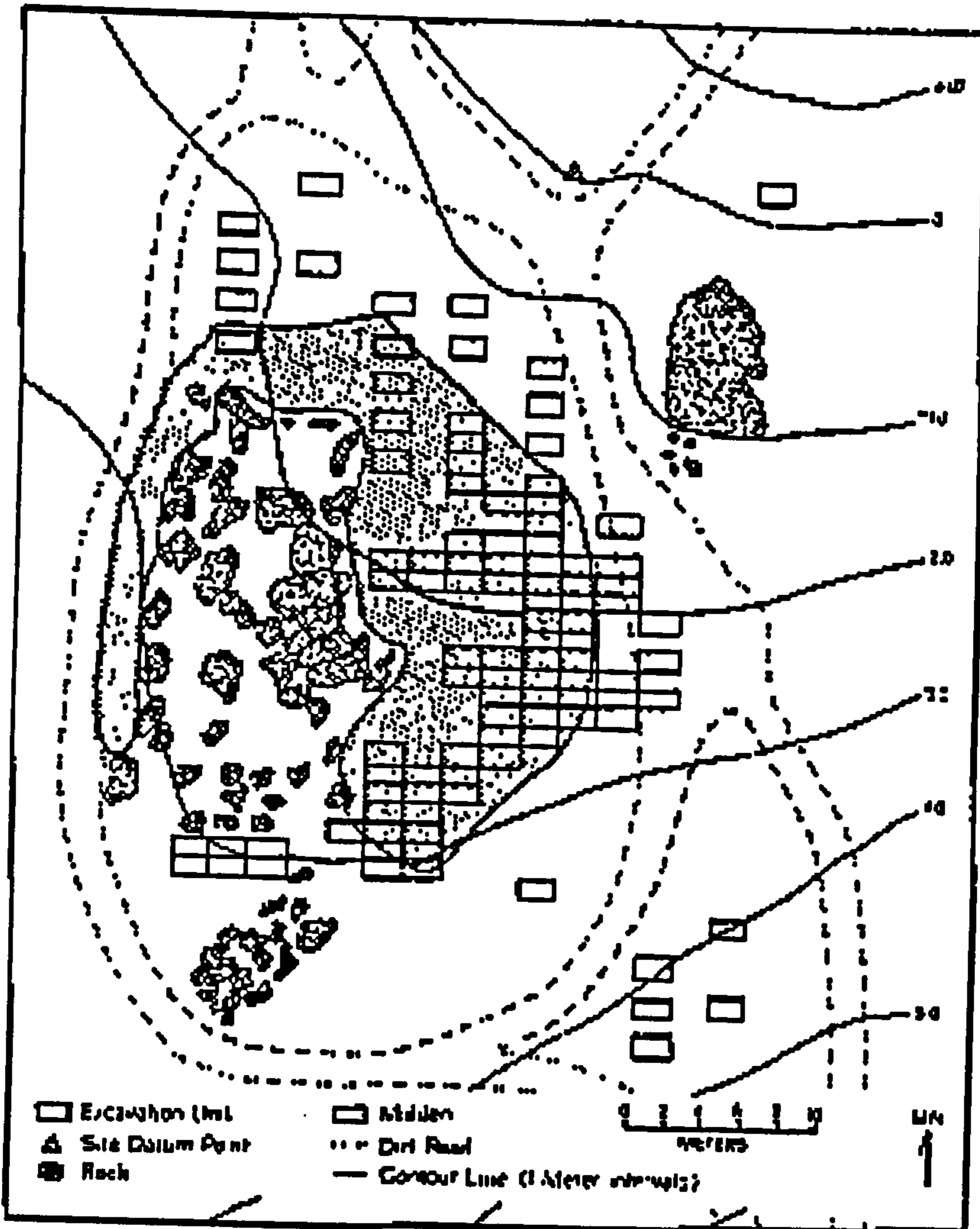
Map 1.1 : United States and Canada, showing Hudson's Bay and the Pacific Northwest Coast. The various migrations are shown in bold.



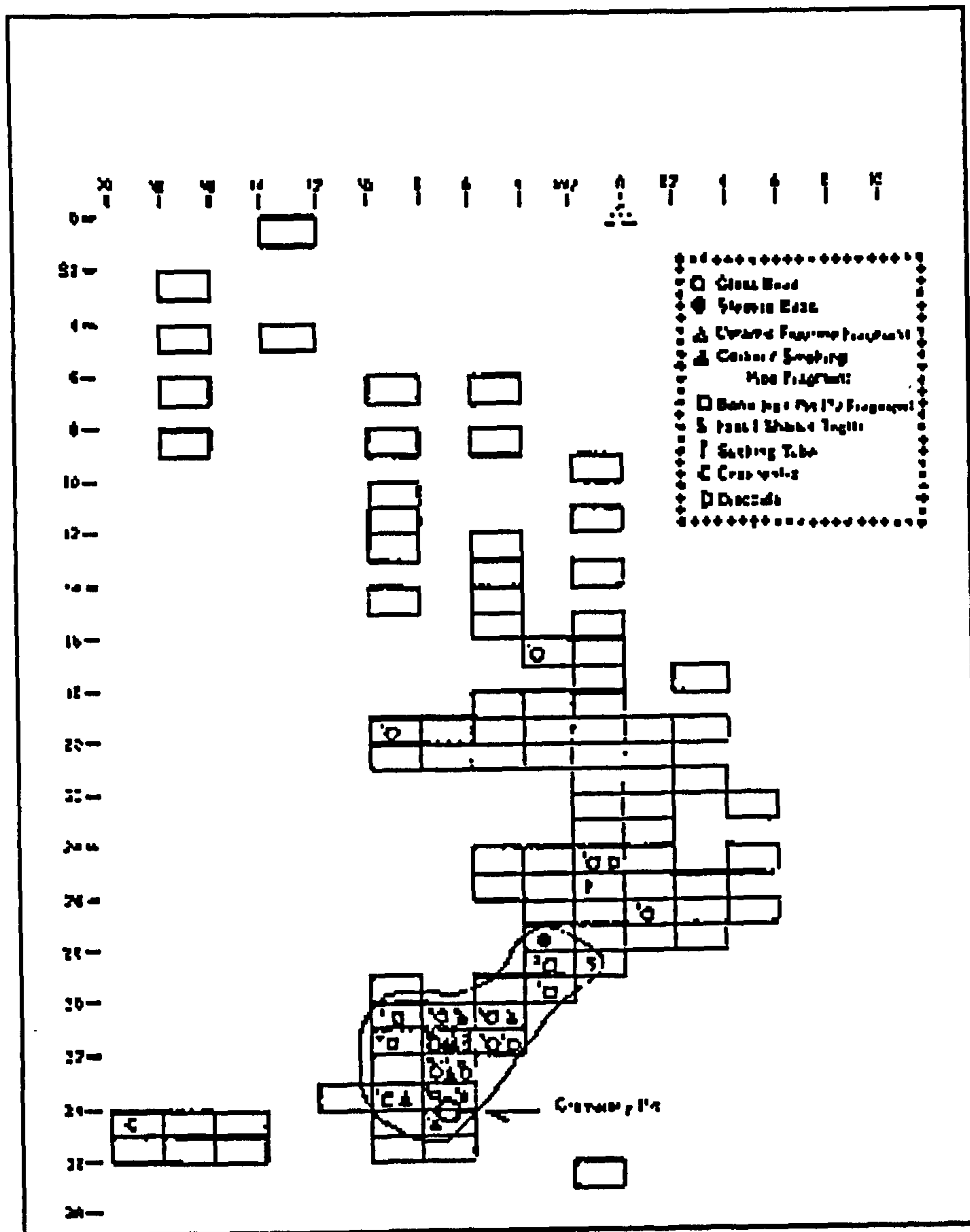
Map 3.1 : Bead production sites in Holland during the 16th and 17th centuries (after Karklins 1974: 112).



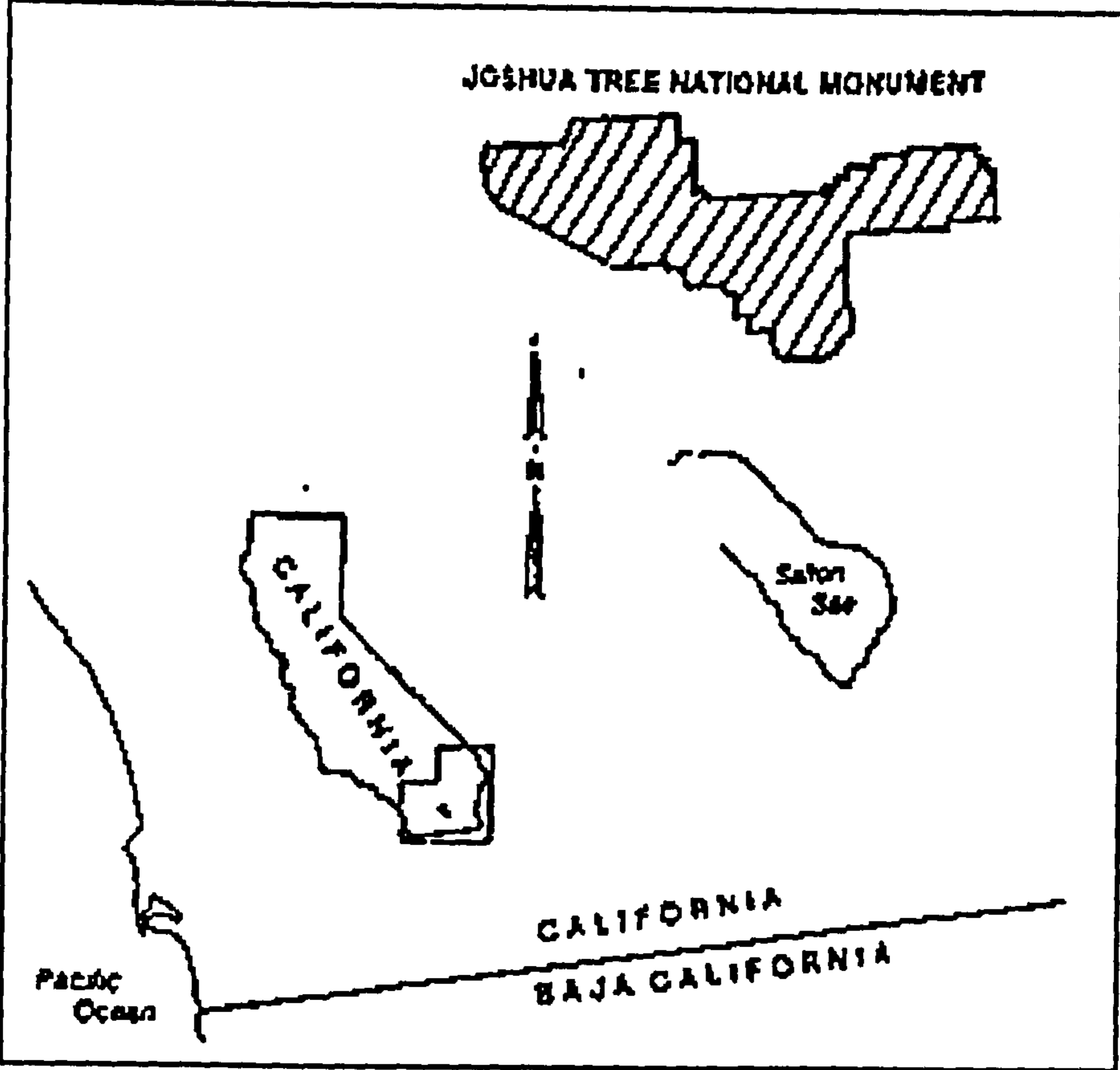
MAP 7.1 : Location of excavated units at Deer Springs.



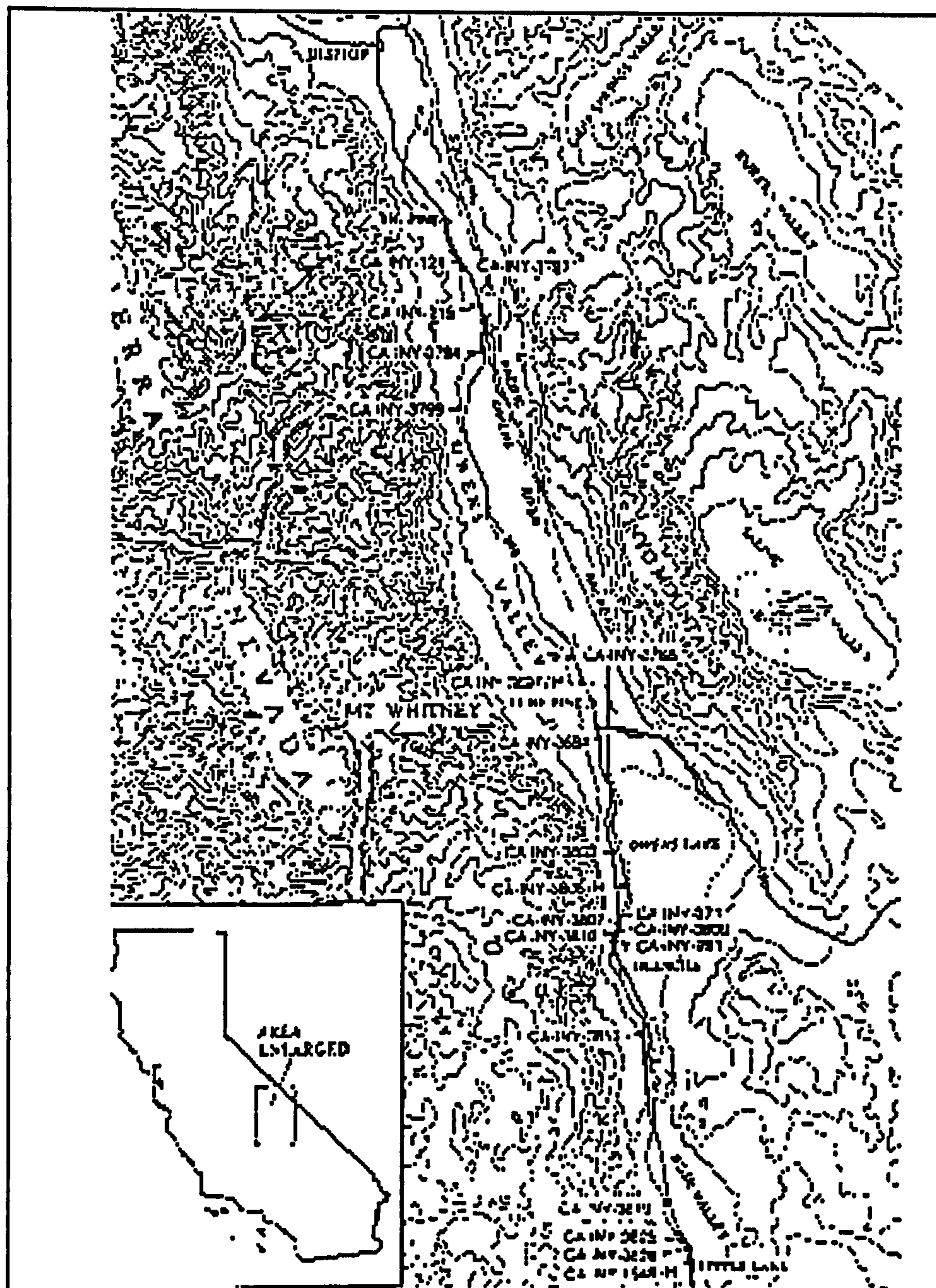
MAP 7.2 : Site map for PC-3.



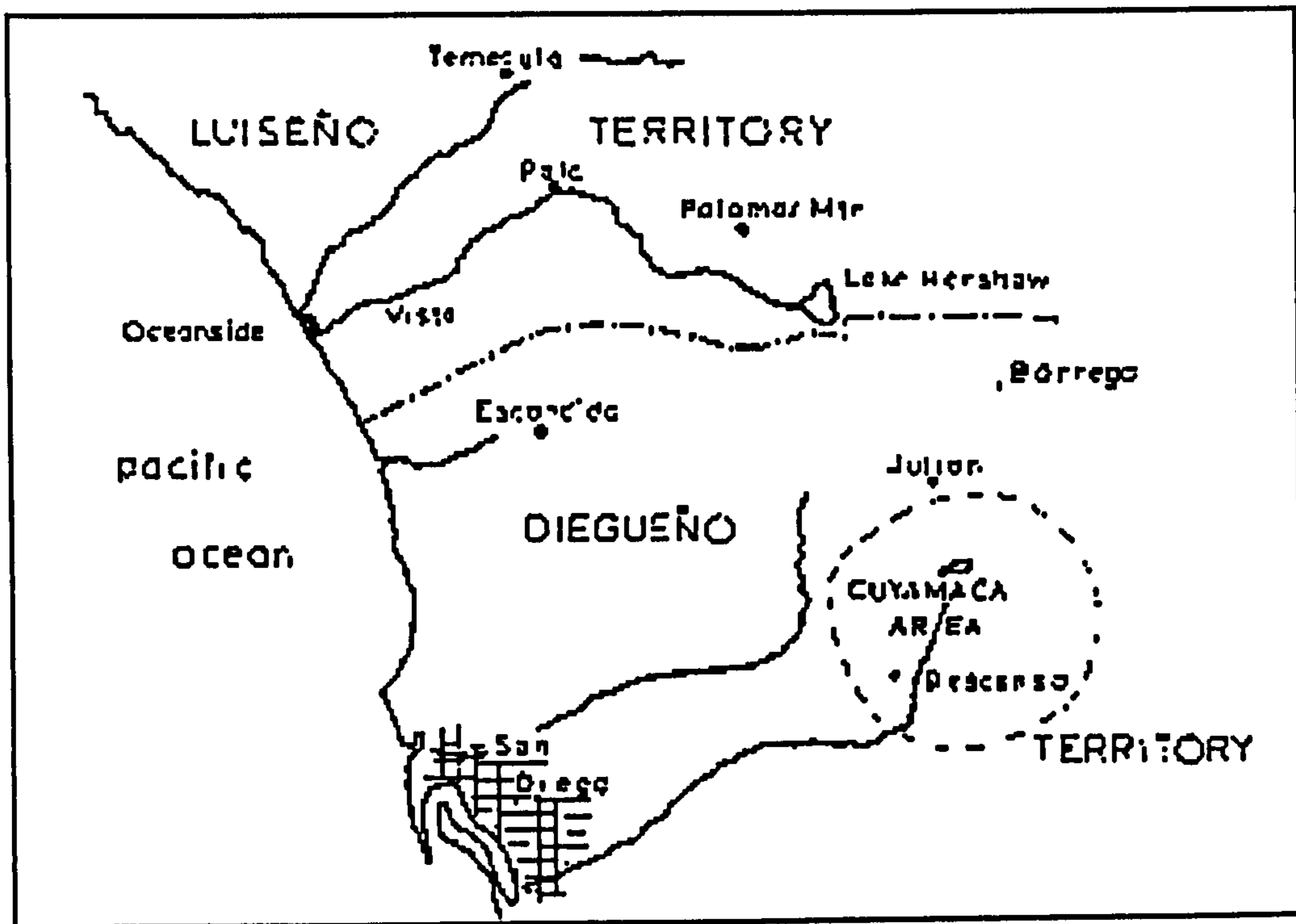
MAP 7.3 : Locations of PC-3 units where glass beads were excavated. Courtesy of Dennis O'Neil, Palomar College, San Marcos, California.



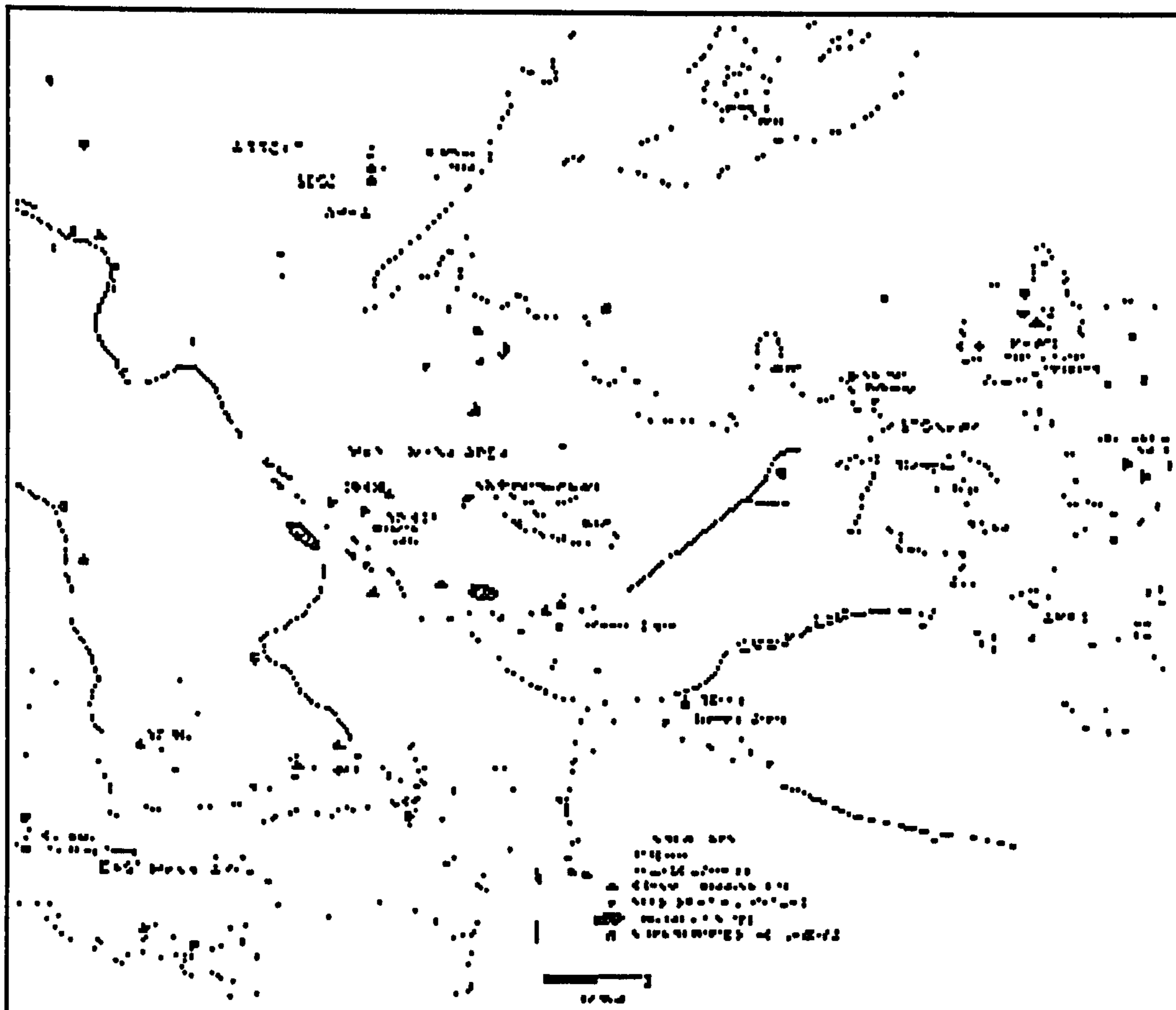
Map 7.5 : General location of the Joshua Tree National Monument.



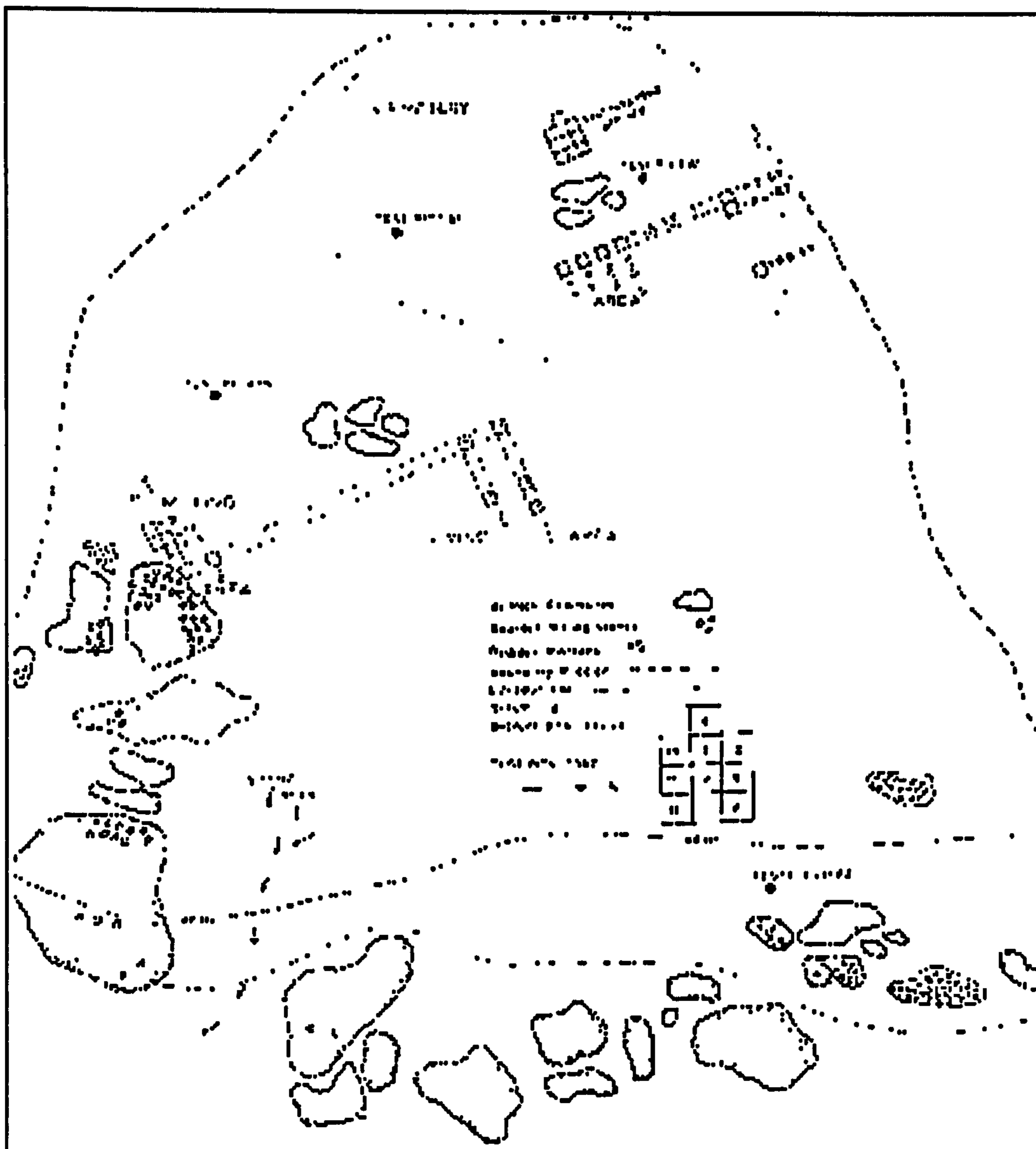
Map 7.6 : Owens Valley site locations (after Delacorte & McGuire 1993: 2).



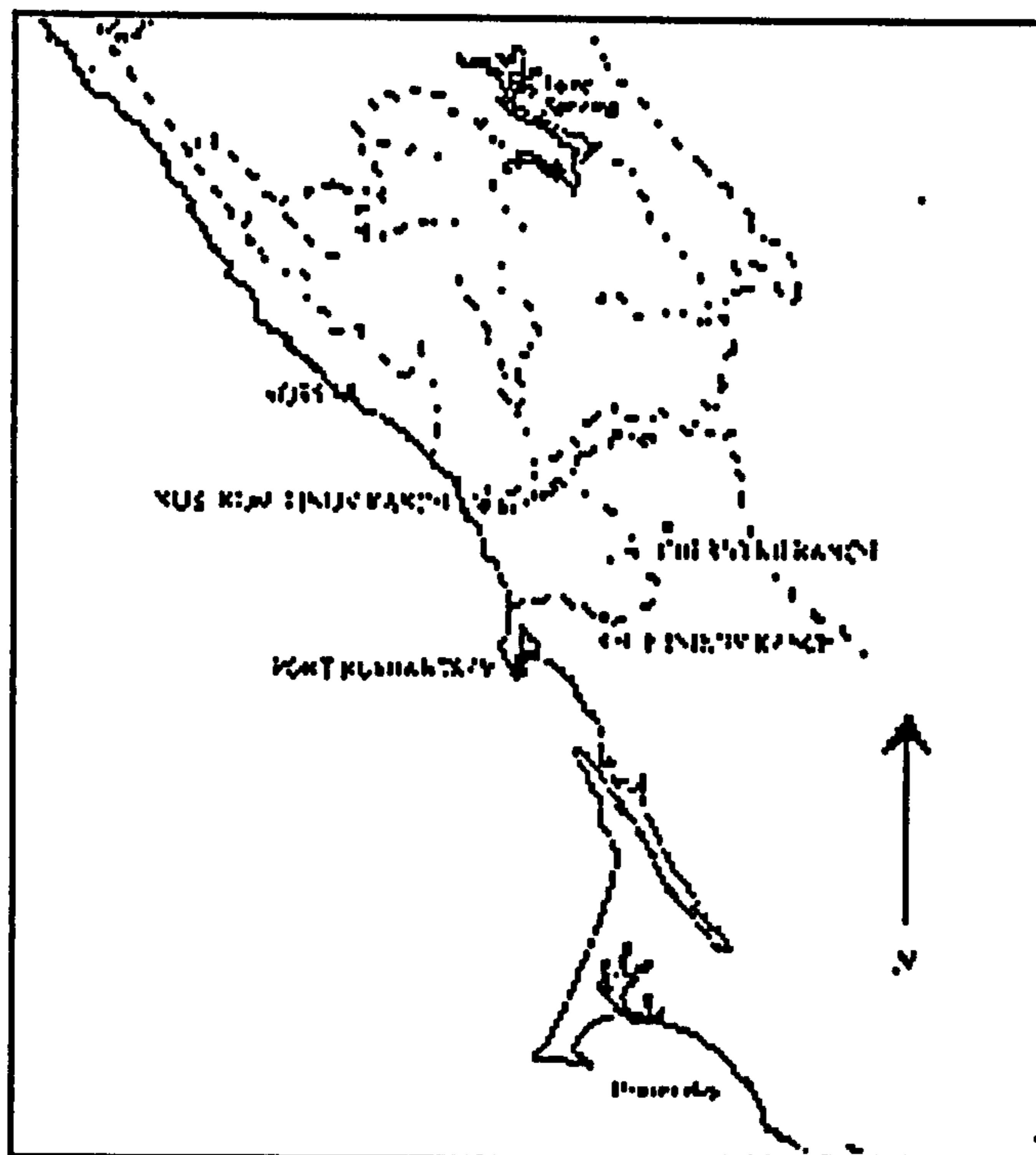
Map 7.7 : Cuyamaca area of San Diego County, California.



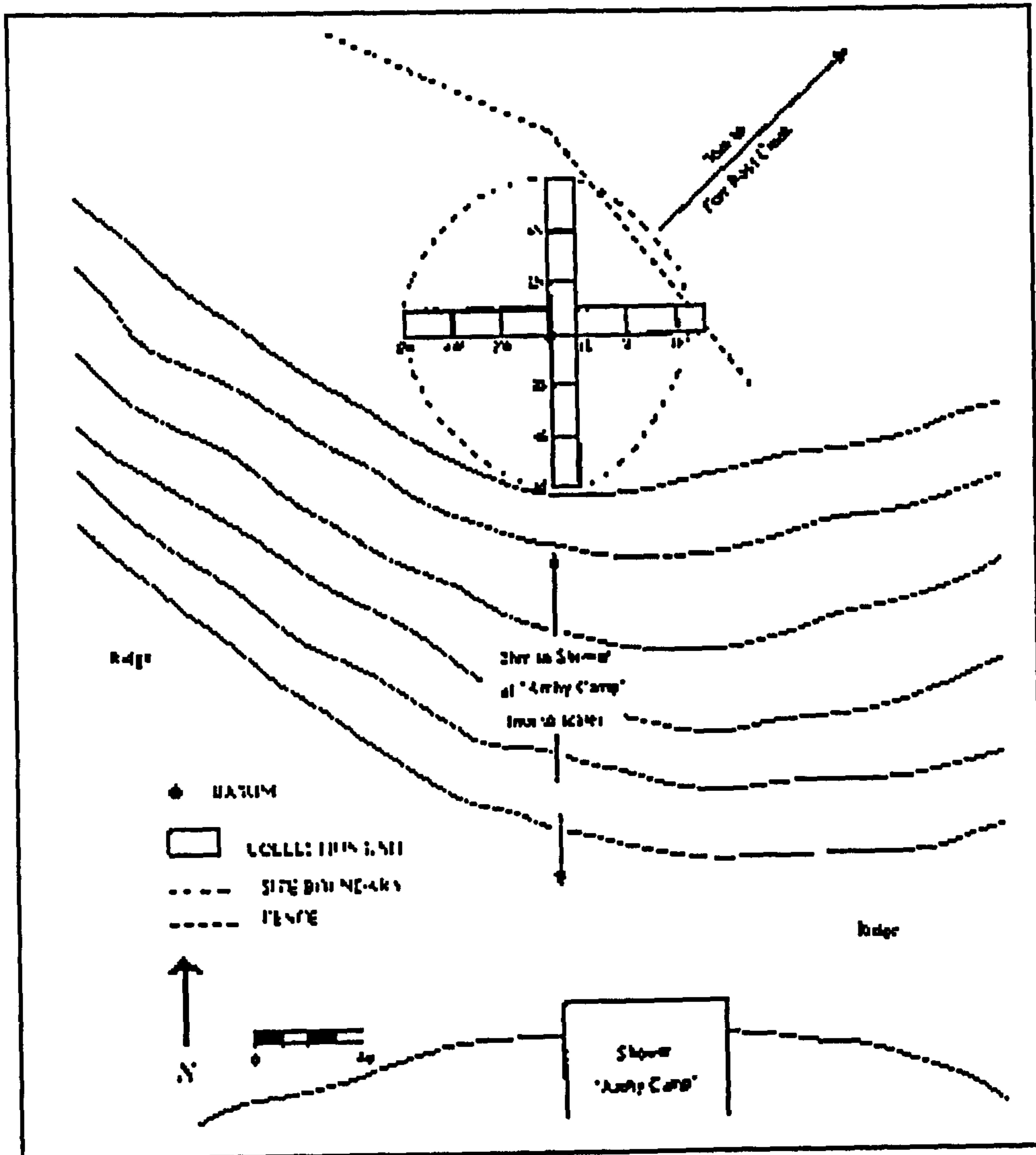
Map 7.8 : Cuyamaca Rancho State Park site distribution
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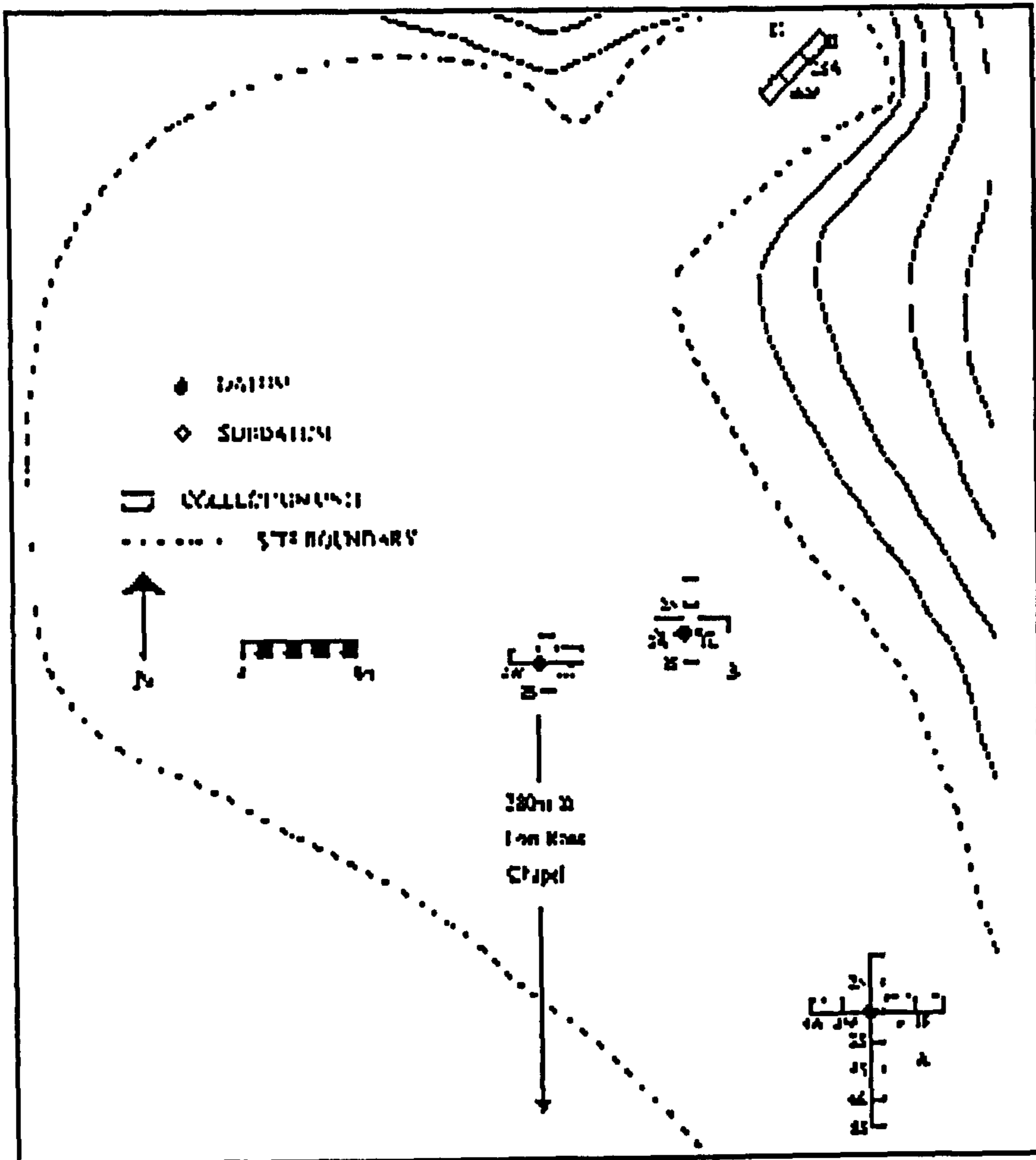
Map 7.9 : Site map for CA-SDi-860 (after True 1970: 12).



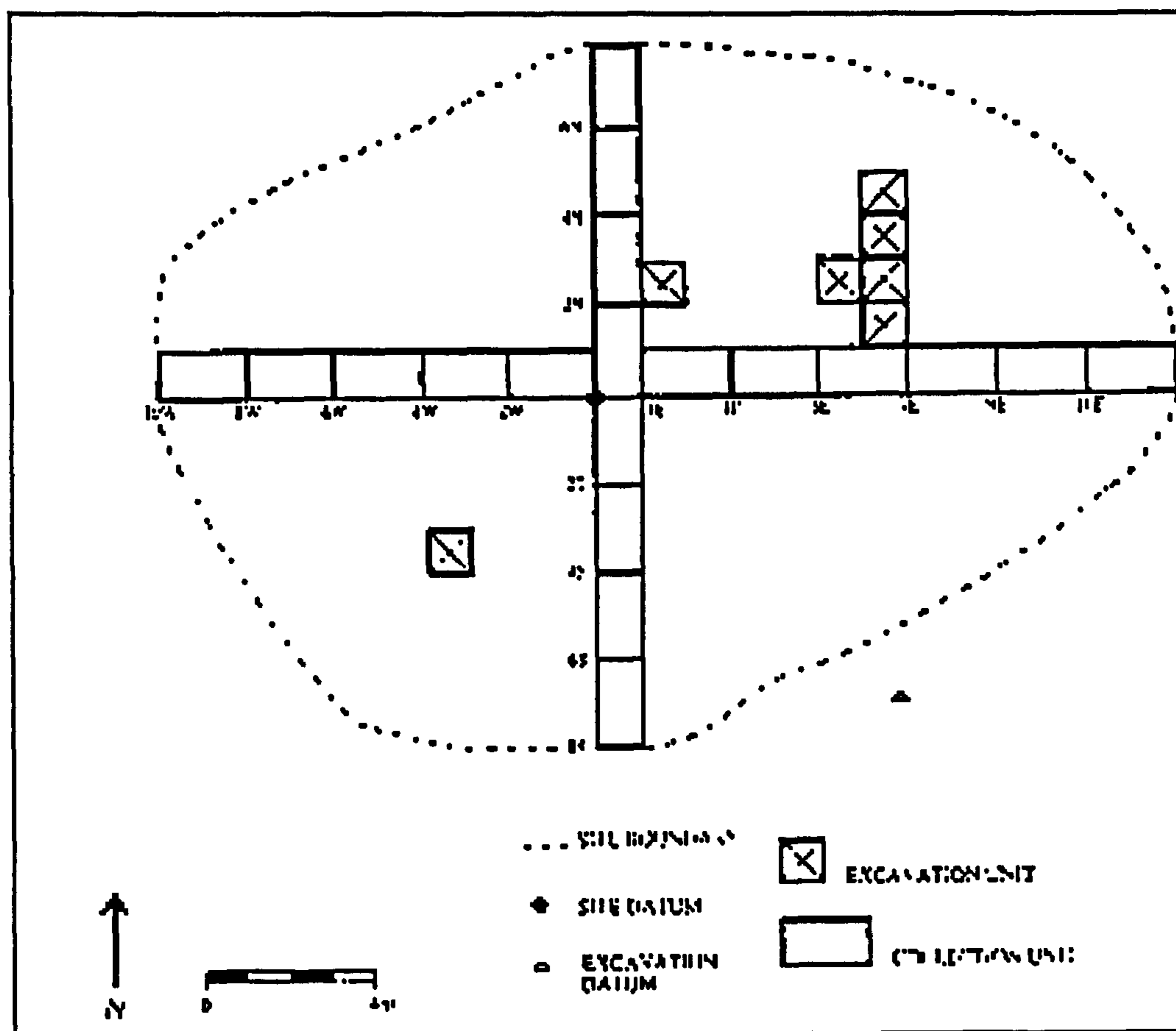
Map 7.10 : Area of Fort Ross and other Russian settlements nearby (after Lightfoot et al. 1991: 13).



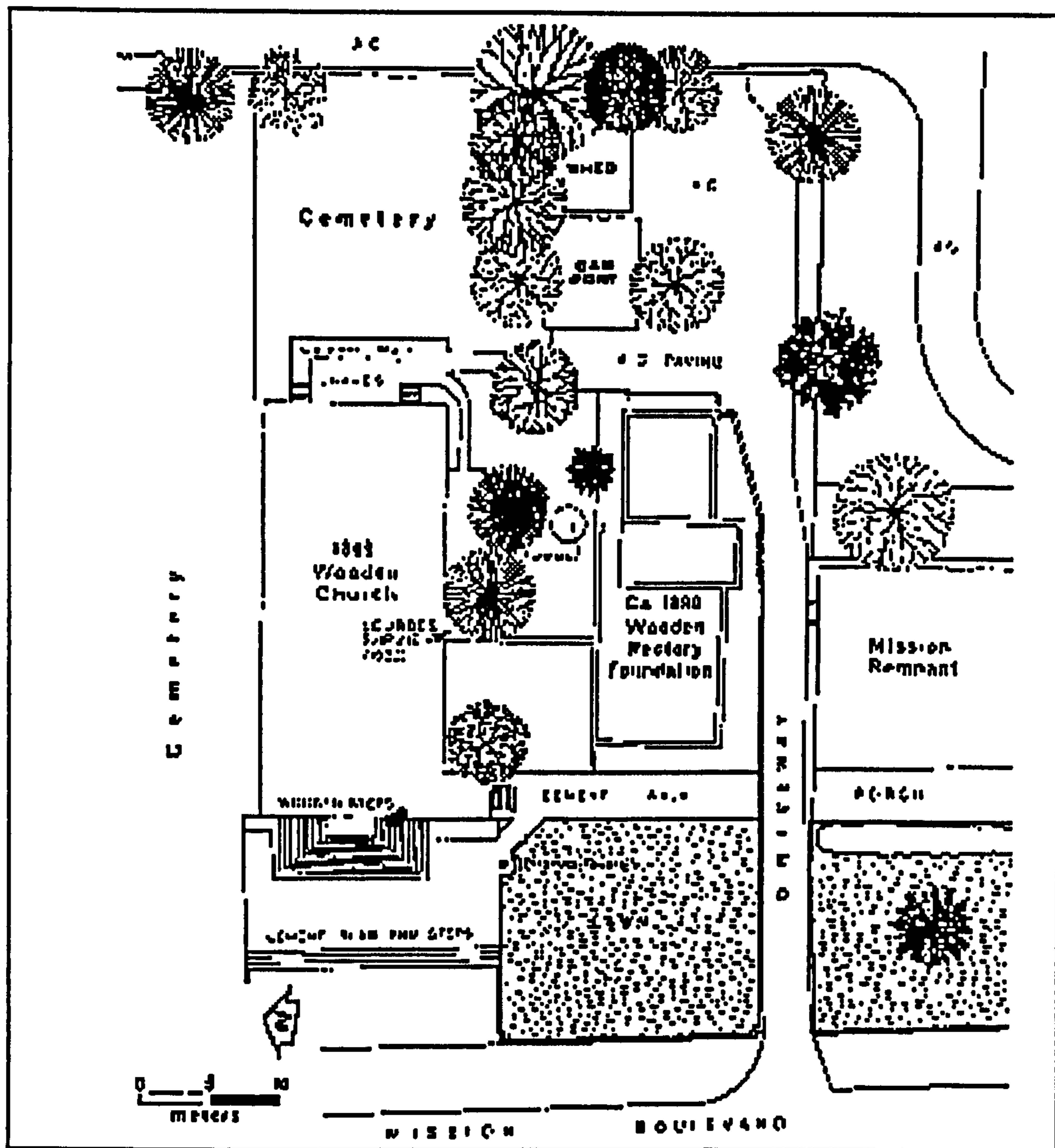
Map 7.12 : Site map for CA-Son-670 (after Lightfoot et al. 1991: 80).



Map 7.13 : Site map for CA-Son-1880 (after Lightfoot et al. 1991: 88).



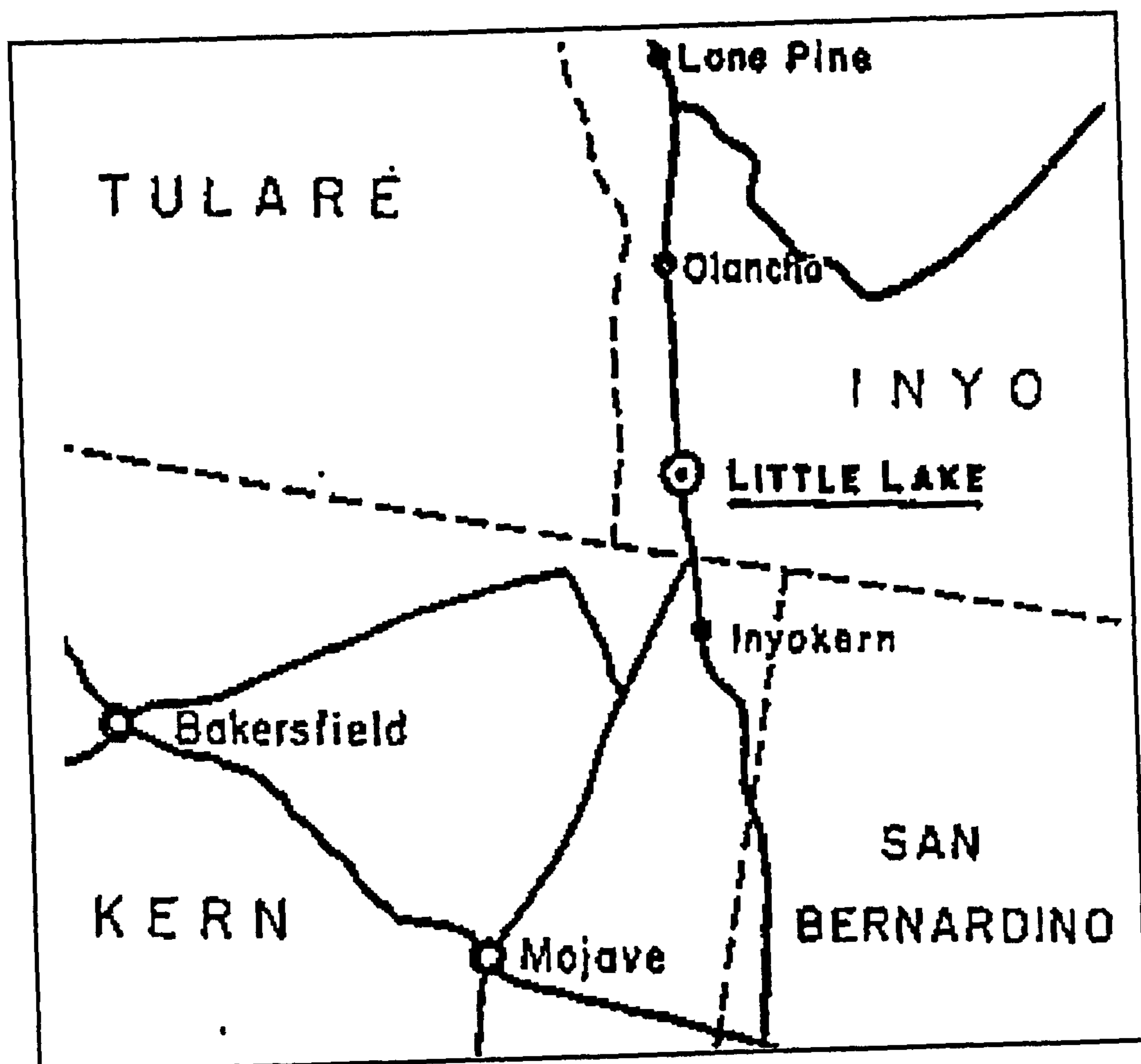
Map 7.14 : Site map for CA-Son-1896 (after Lightfoot et al. 1991: 108).



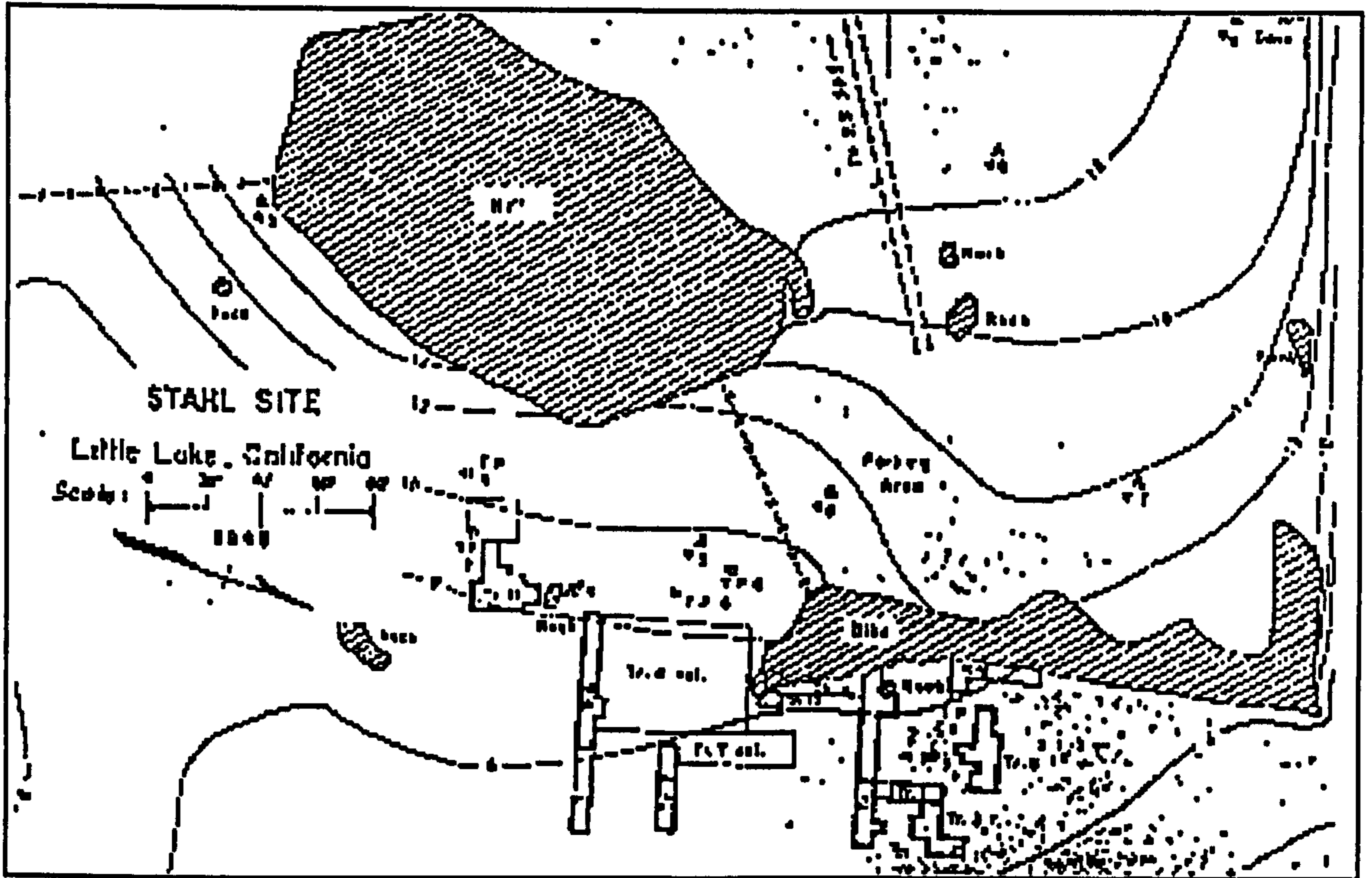
Map 7.15 : Mission San Jose archaeology project map (after Dietz 1983).



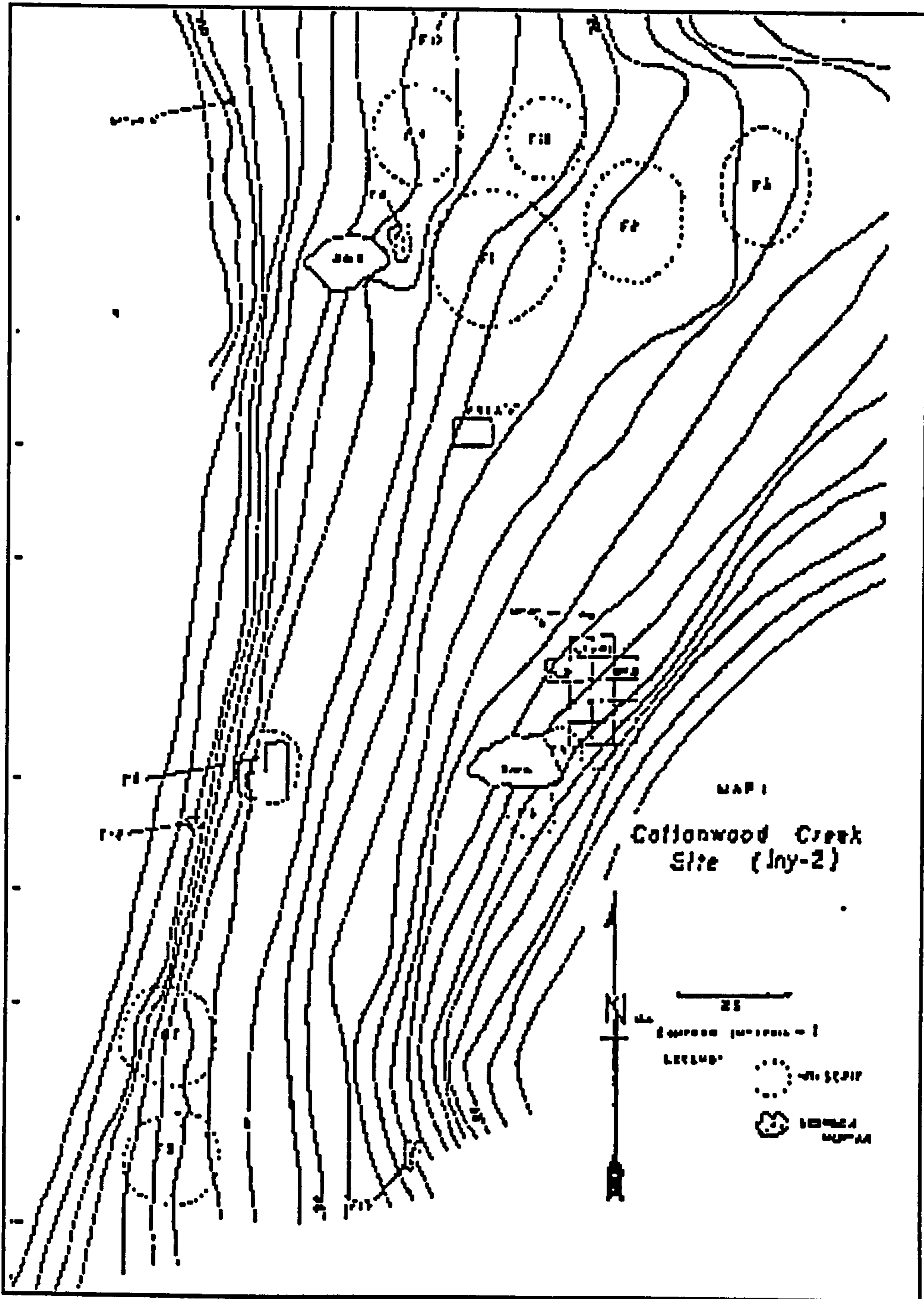
Map 7.17 : View of the Death Valley Salt Pan area (after Hunt 1960: xvi).



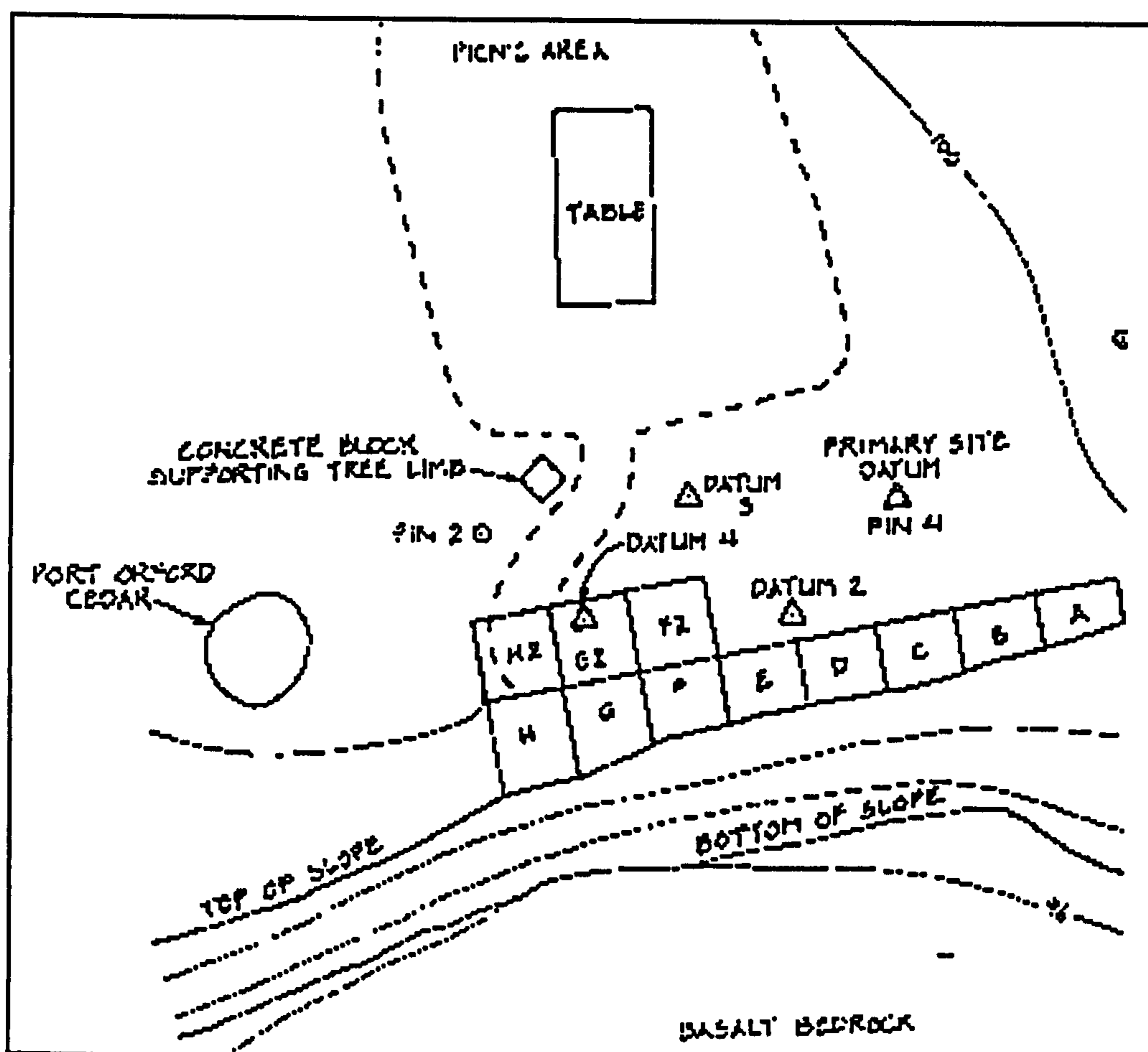
Map 7.18 : Little Lake area of Inyo County (after Harrington 1957: 4).



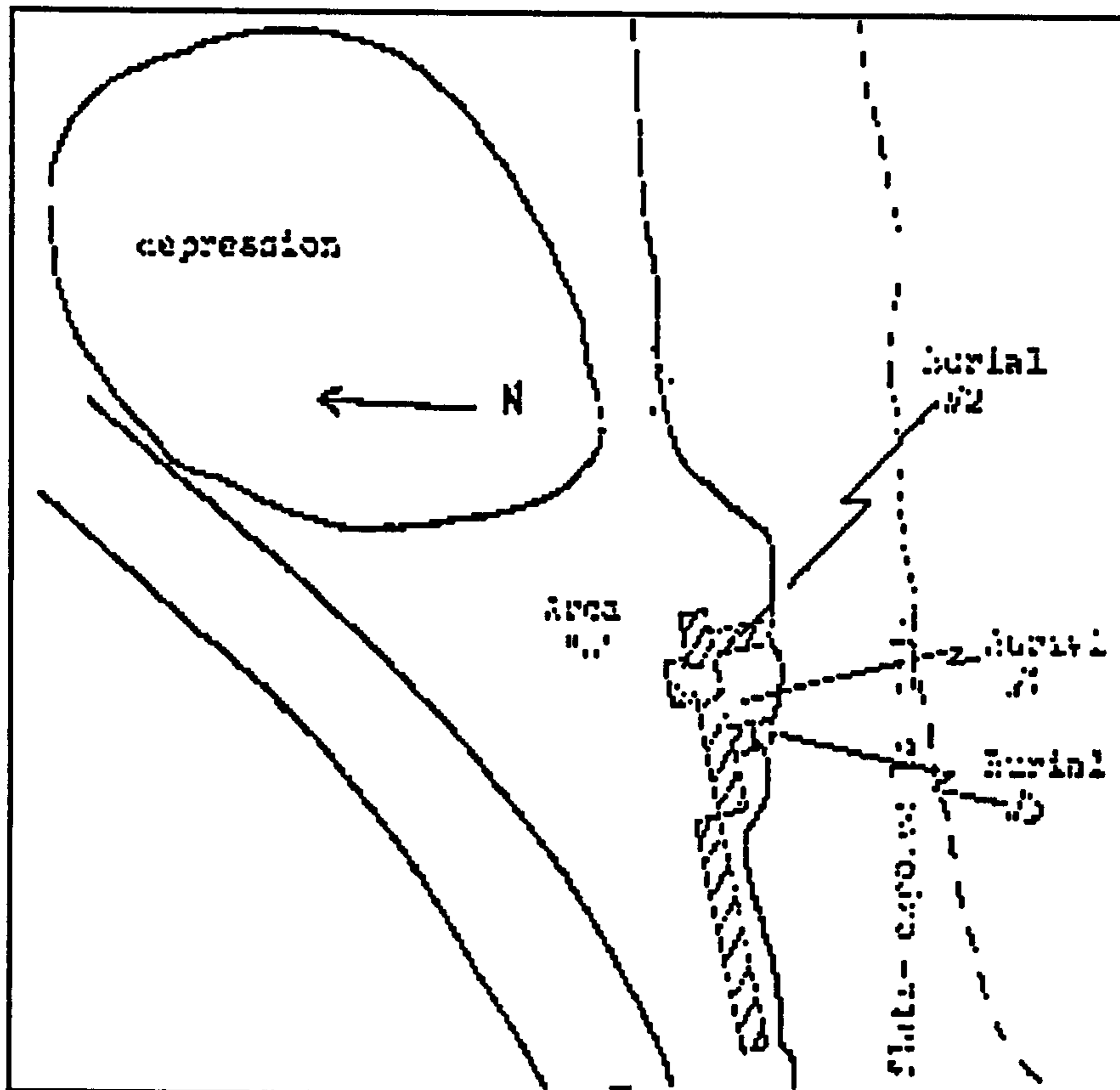
Map 7.19 : Stahl site at Little Lake (after Harrington 1957: 5).



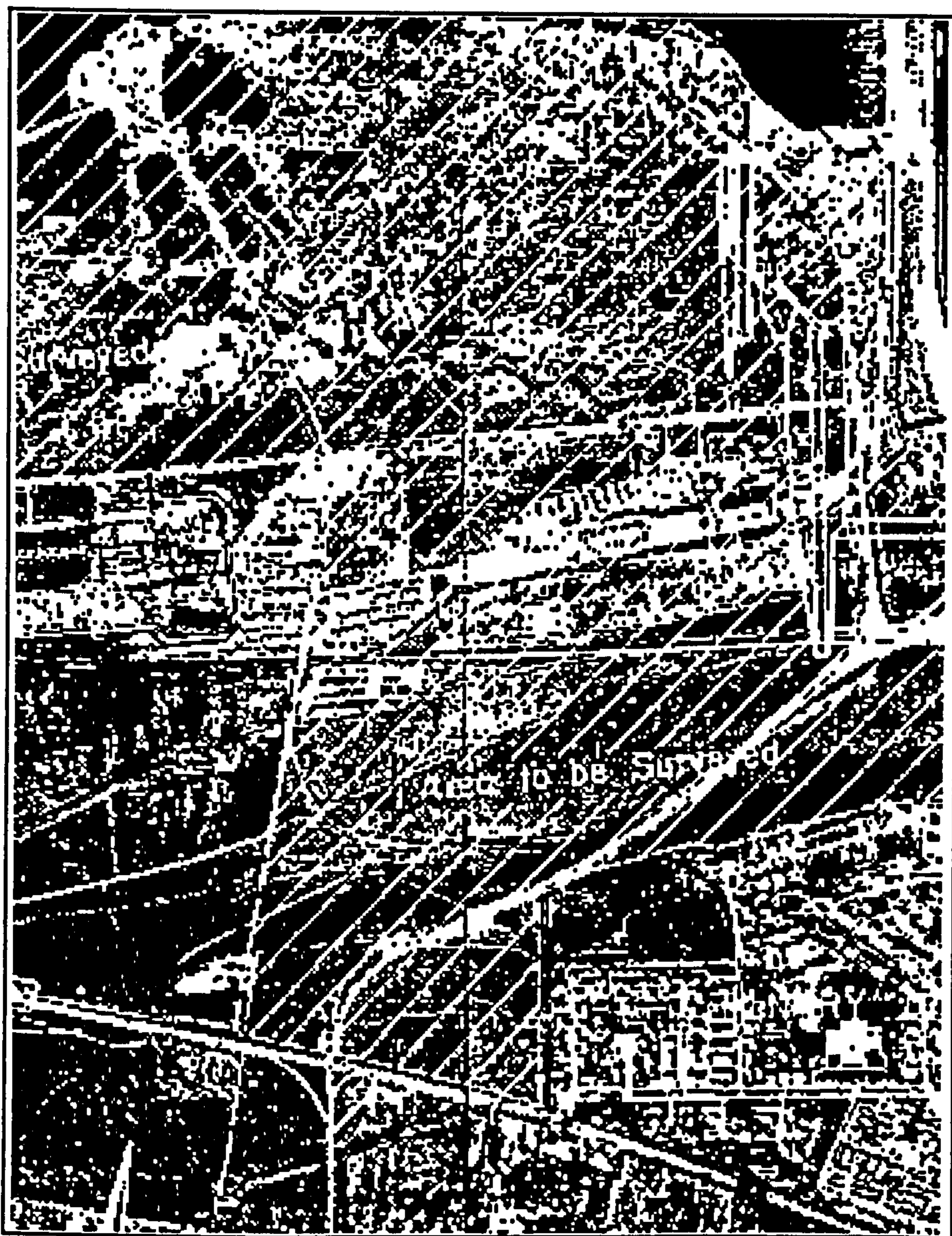
Map 7.20 : Cottonwood Creek site.



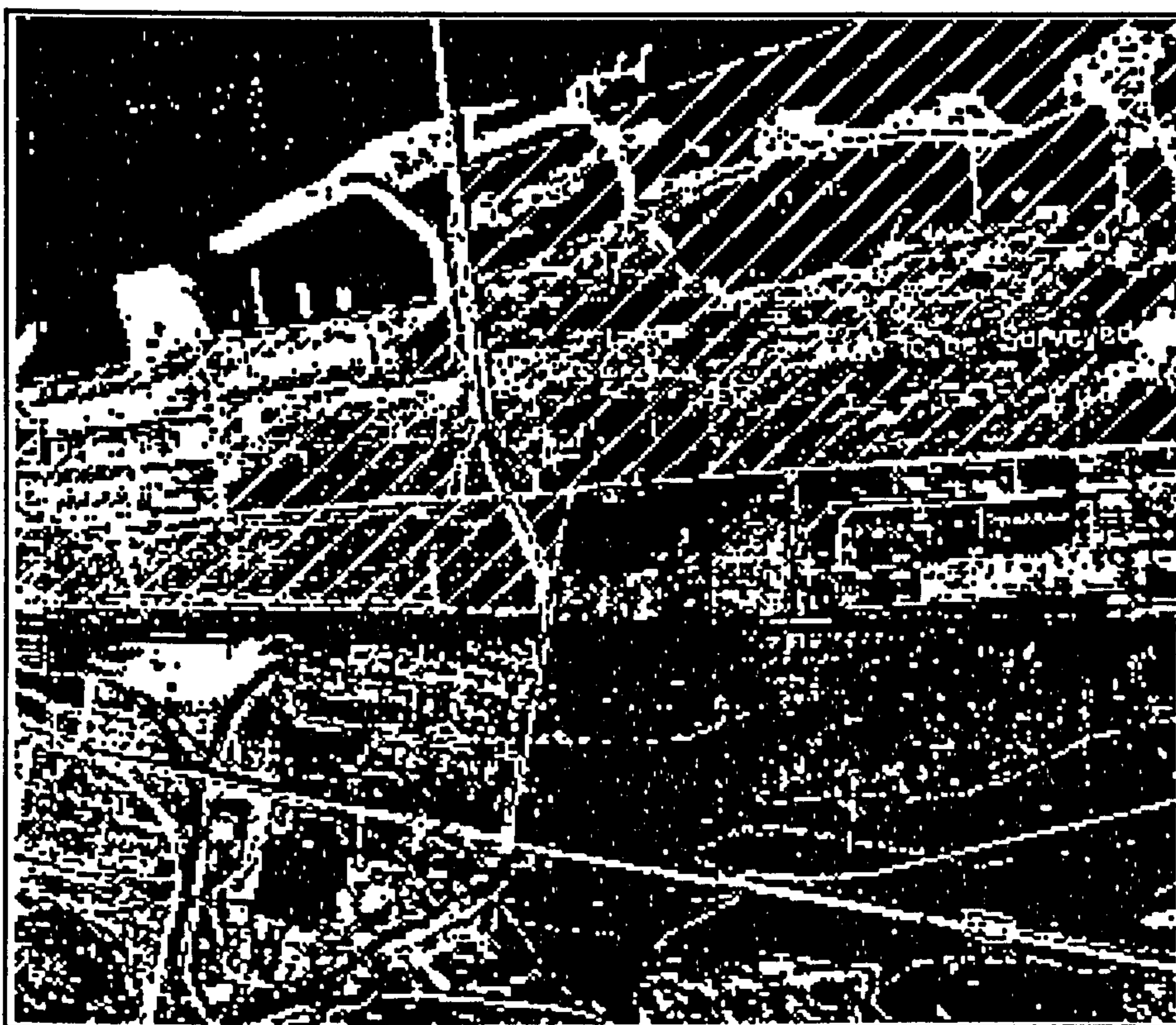
Map 7.21 : Cape Creek archaeological units (after Minor 1991: 4).



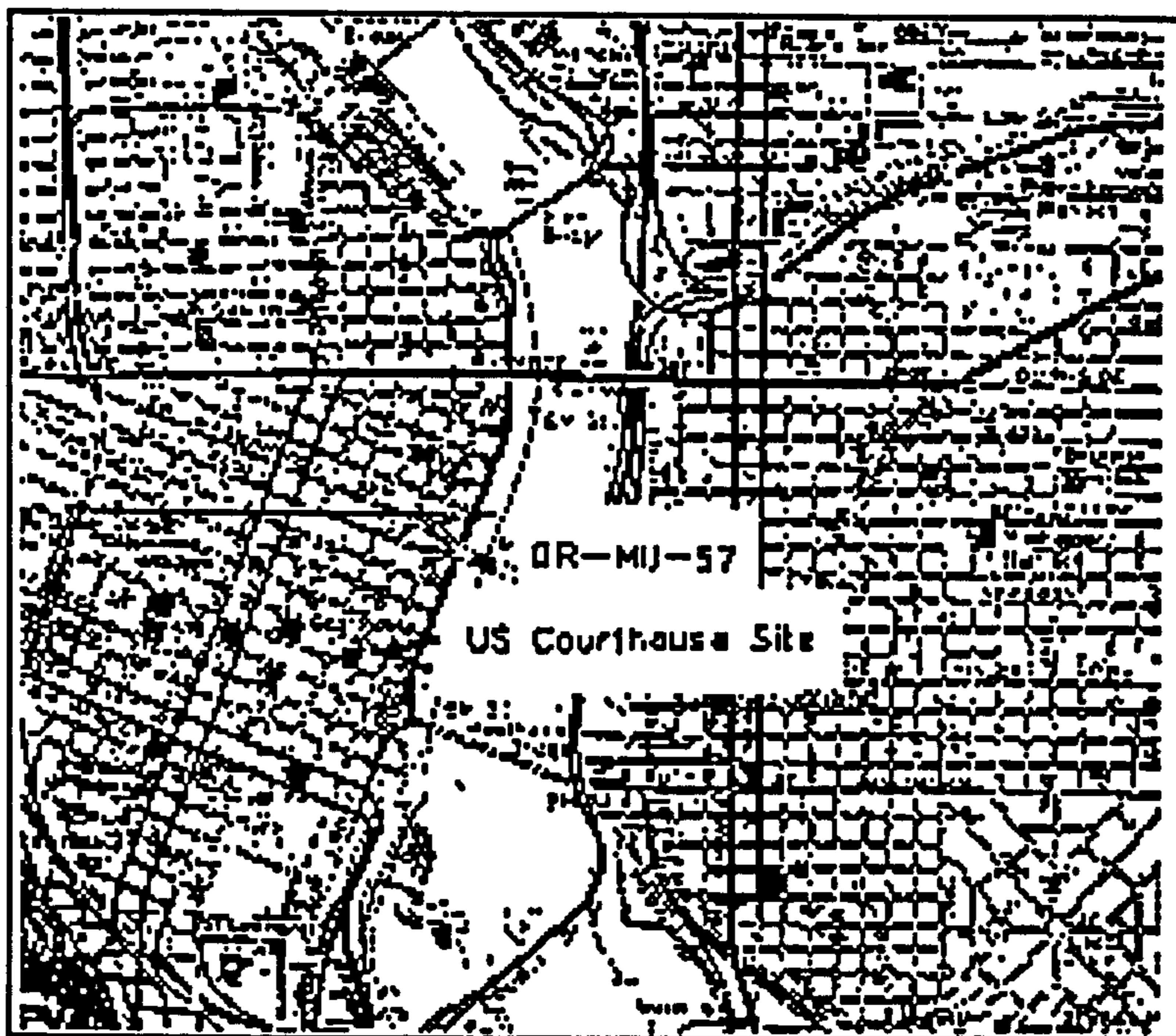
Map 7.22 : Lower Coquille River burial site location (after R. Ross 1976: 2).



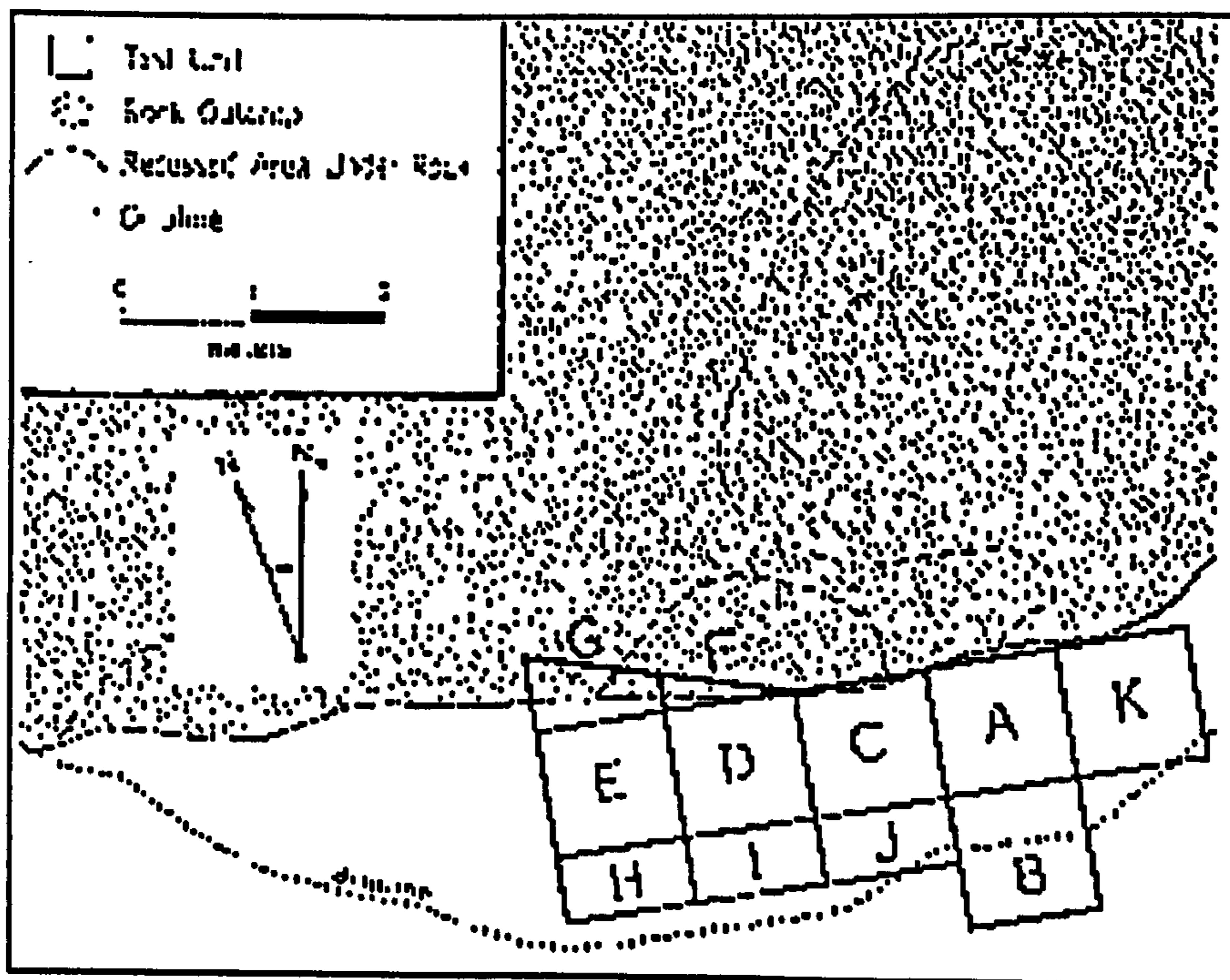
Map 7.23 : Lake Wallula side of the McNary Dam project site.



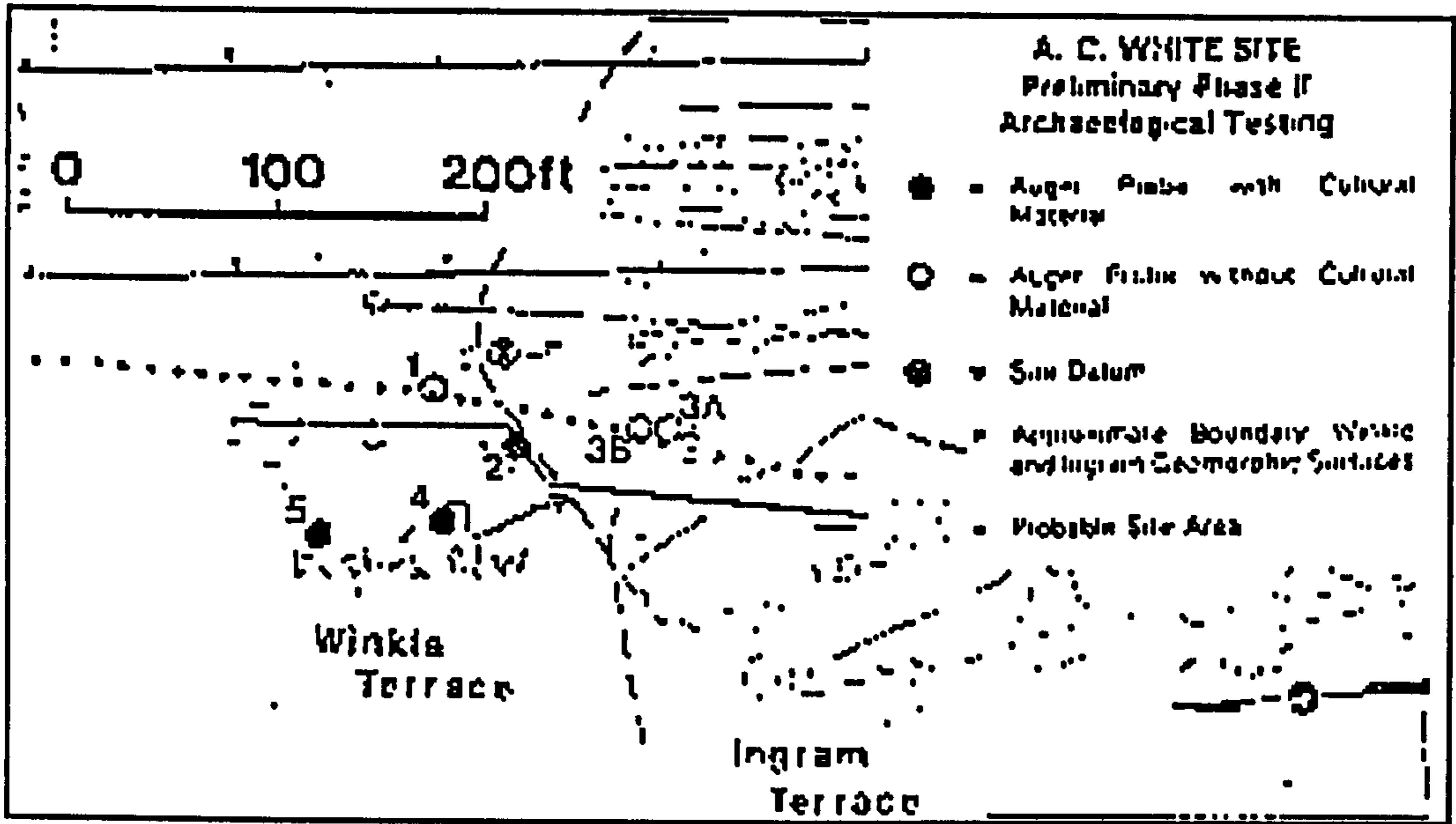
Map 7.24 : Lake Umatilla side of the McNary Dam project.



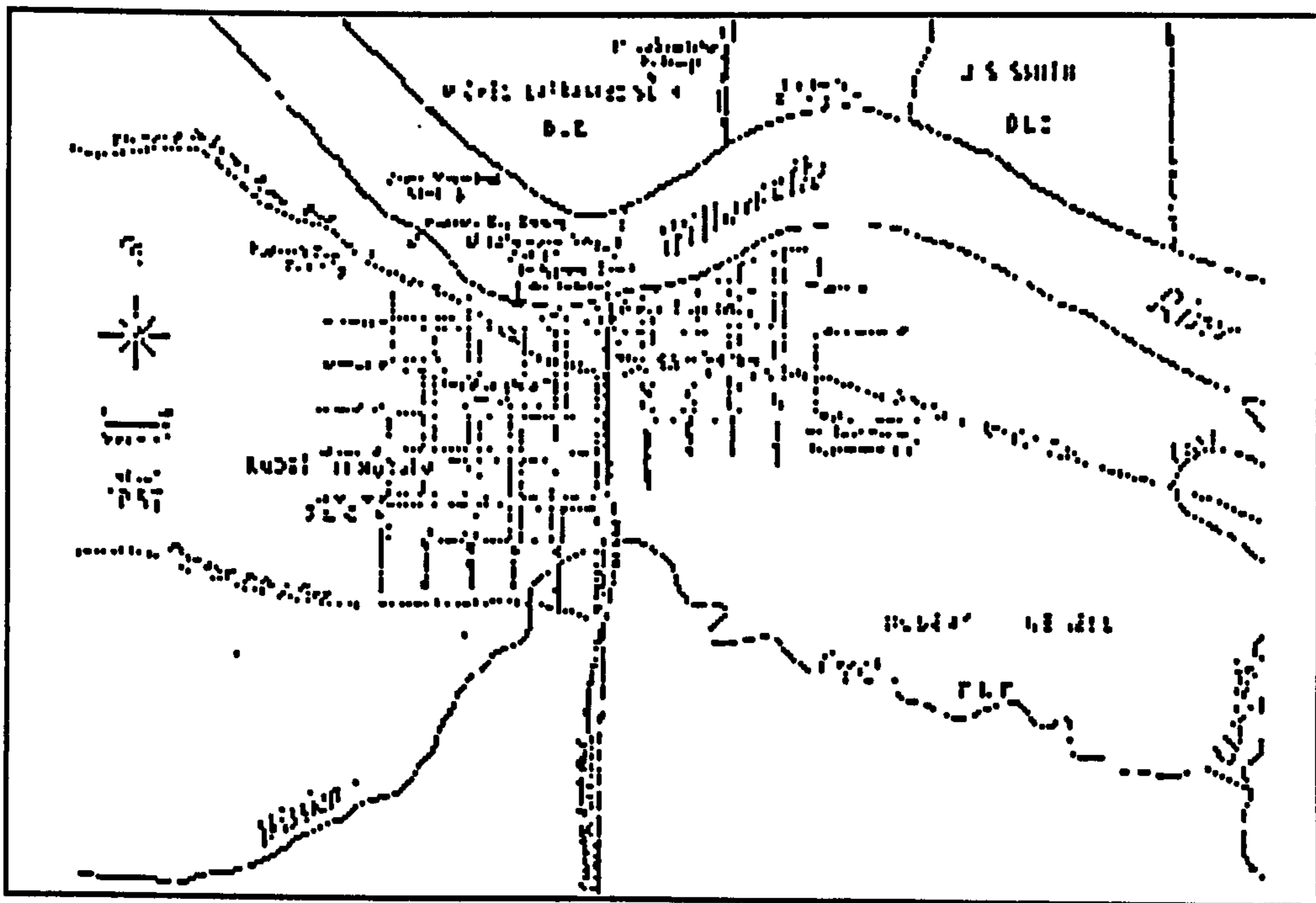
Map 7.25 : Location of United States Courthouse site.



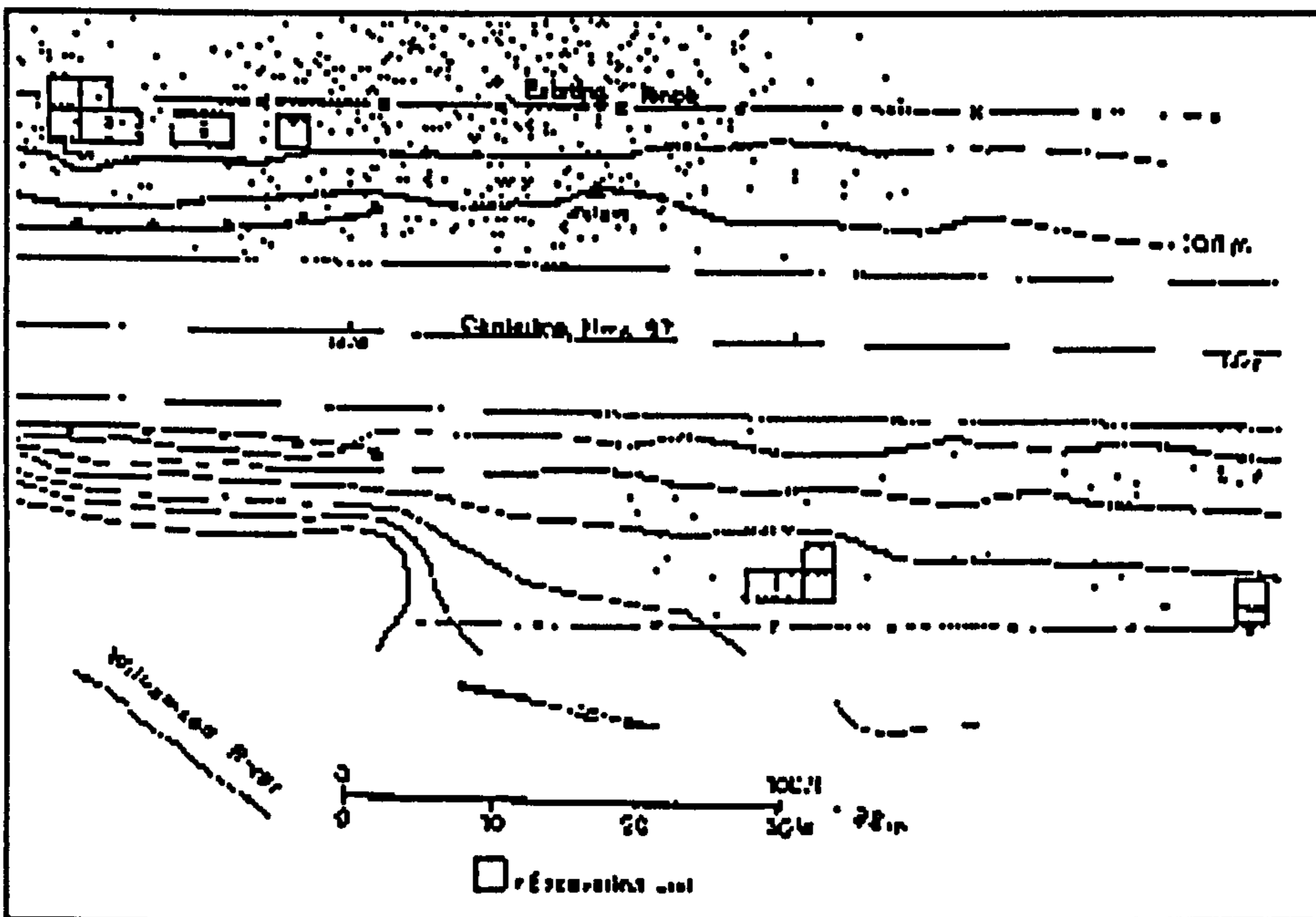
Map 7.26 : Location of the South Umpqua Falls rockshelters.



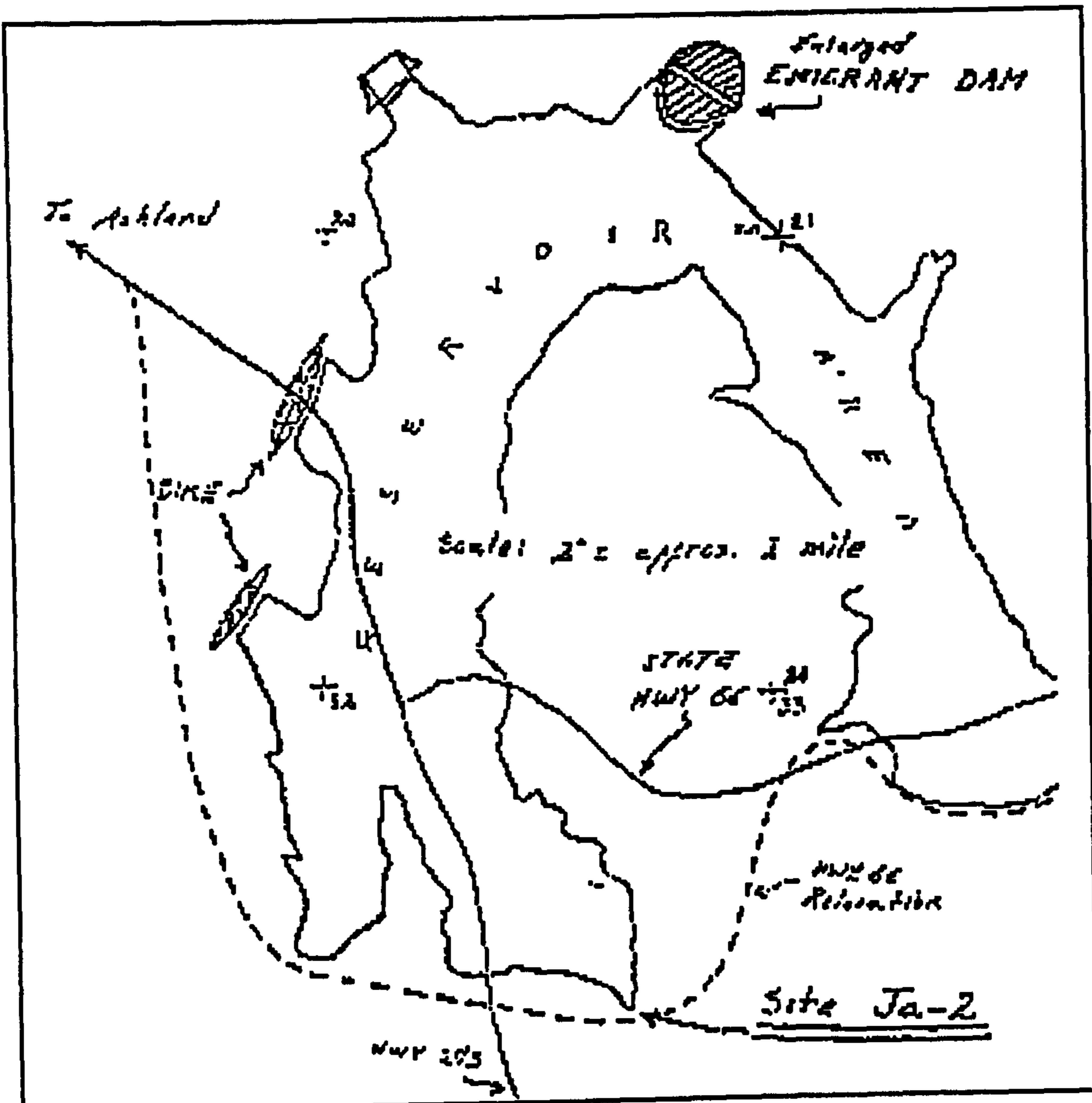
Map 7.27 : A. C. White archaeological site.



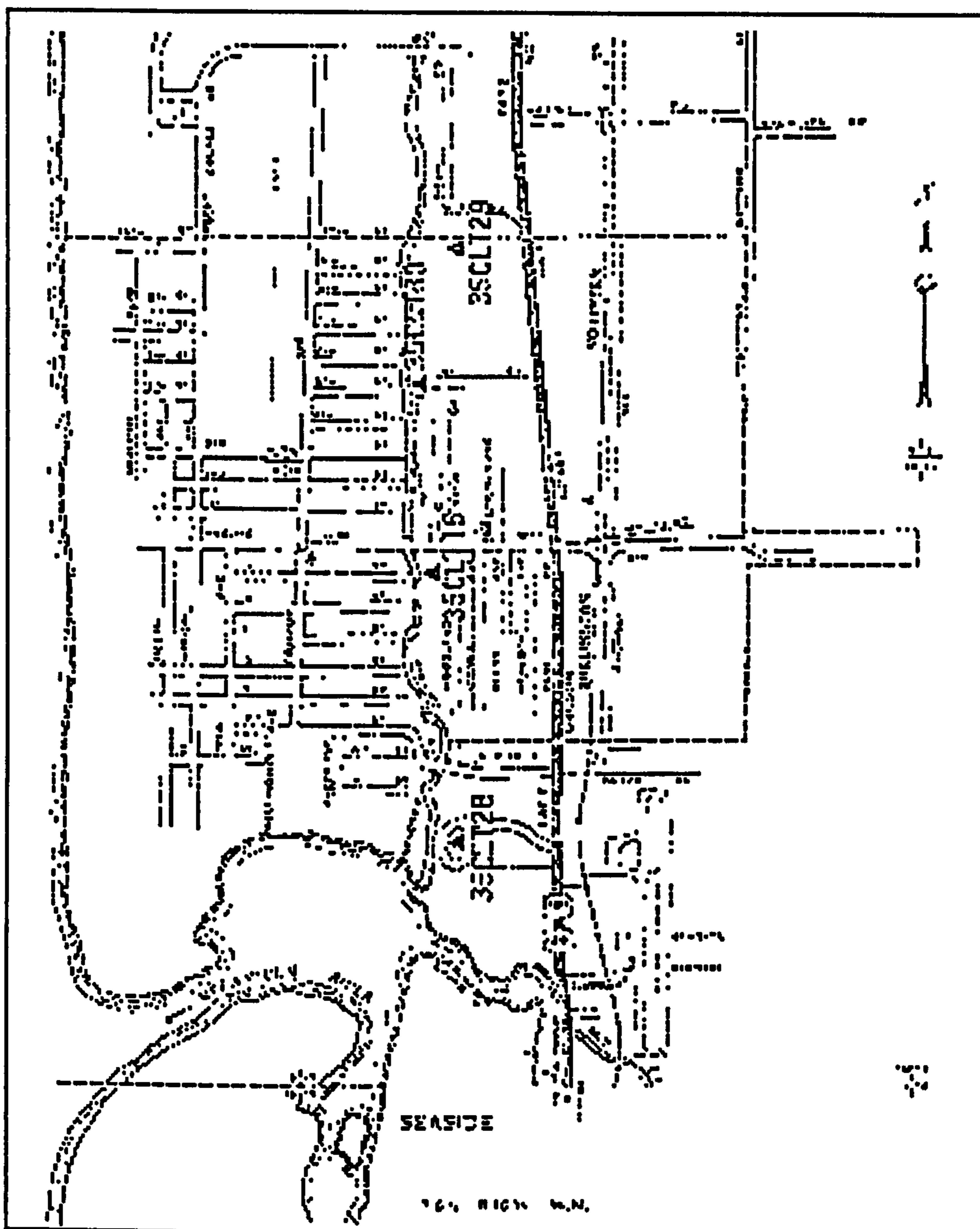
Map 7.28 : Hudson's Bay Company granary site.



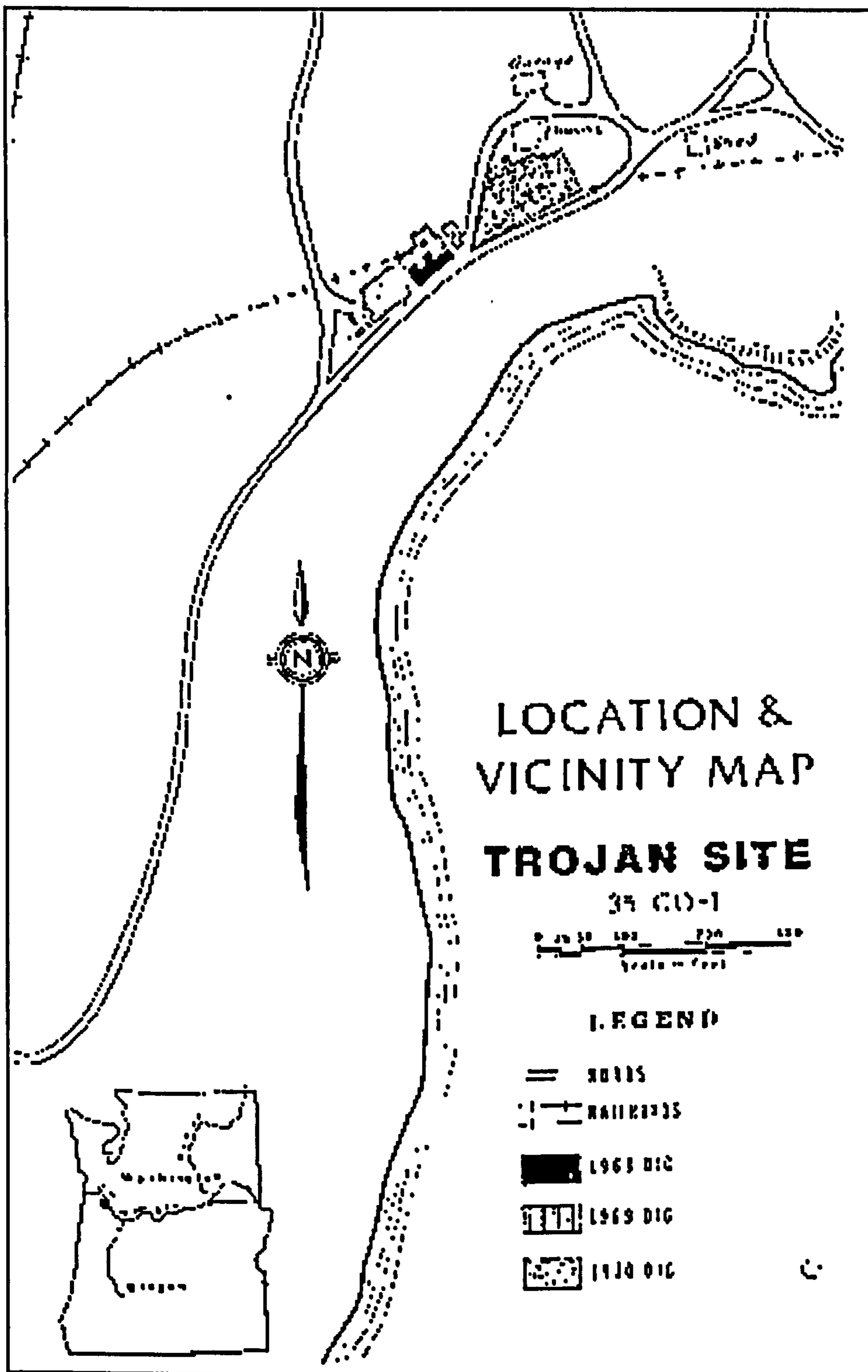
Map 7.29 : Williamson River bridge site.



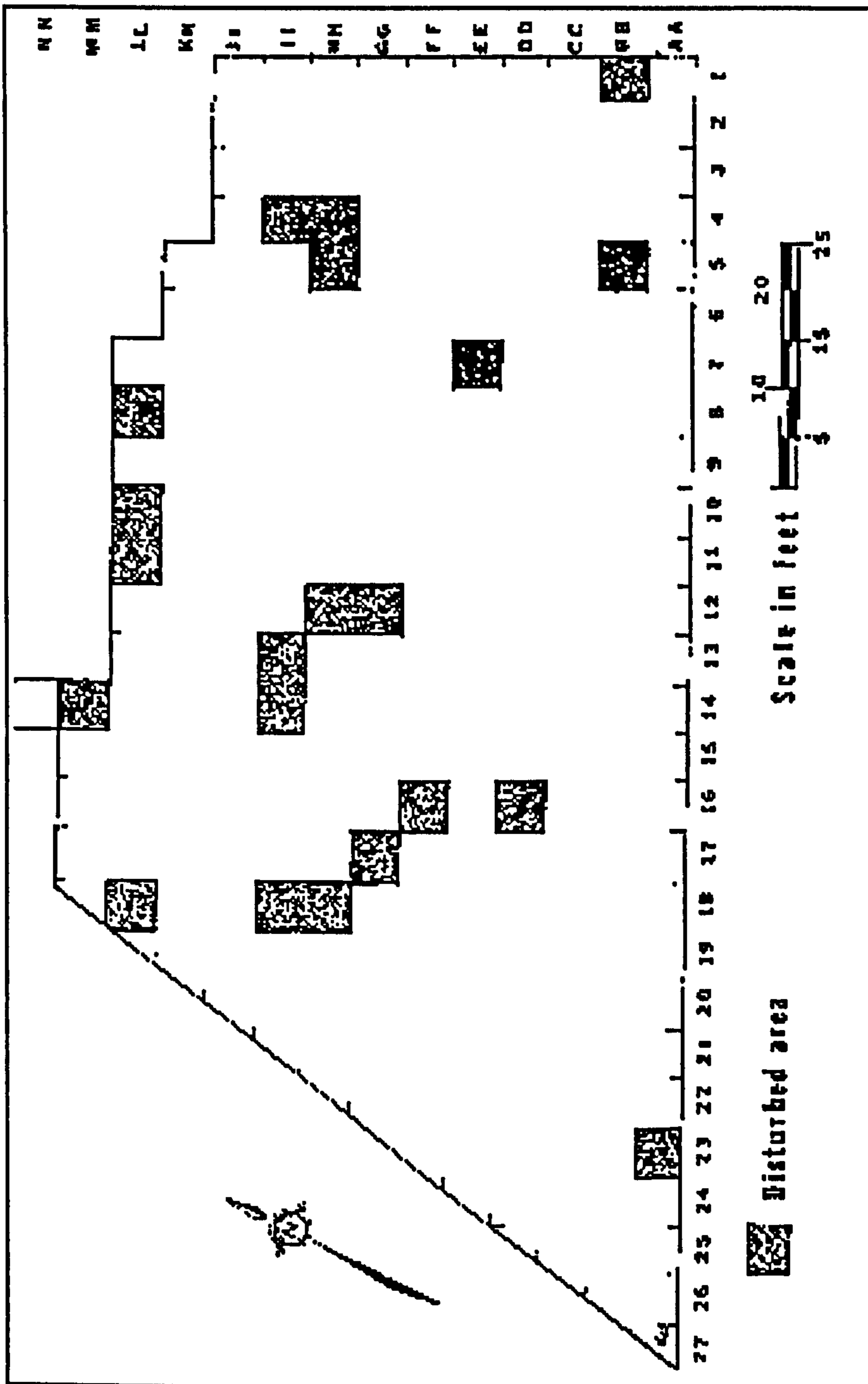
Map 7.30 : Emigrant Dam Reservoir site.



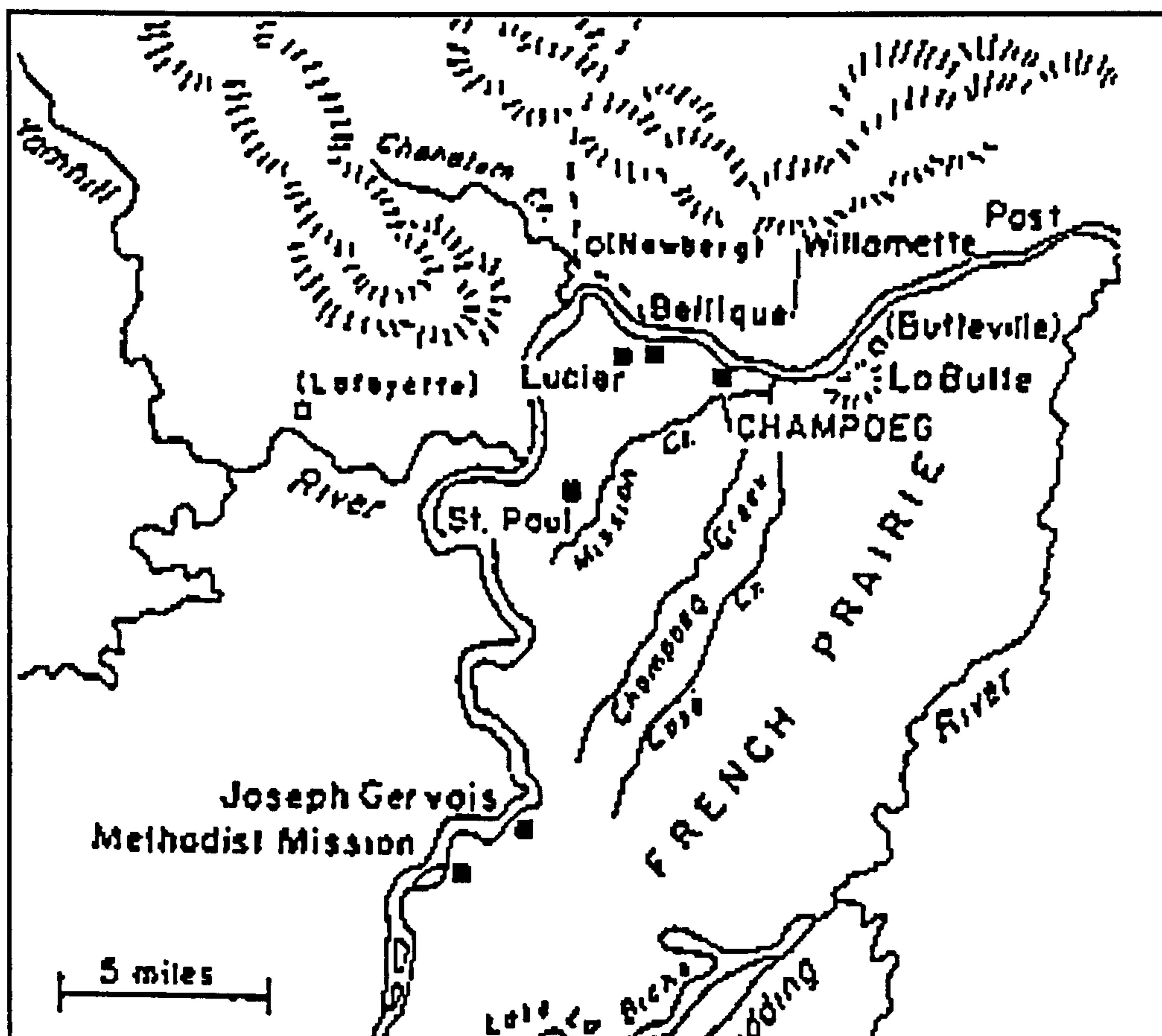
Map 7.31 : Location of Gearhart, Oregon.



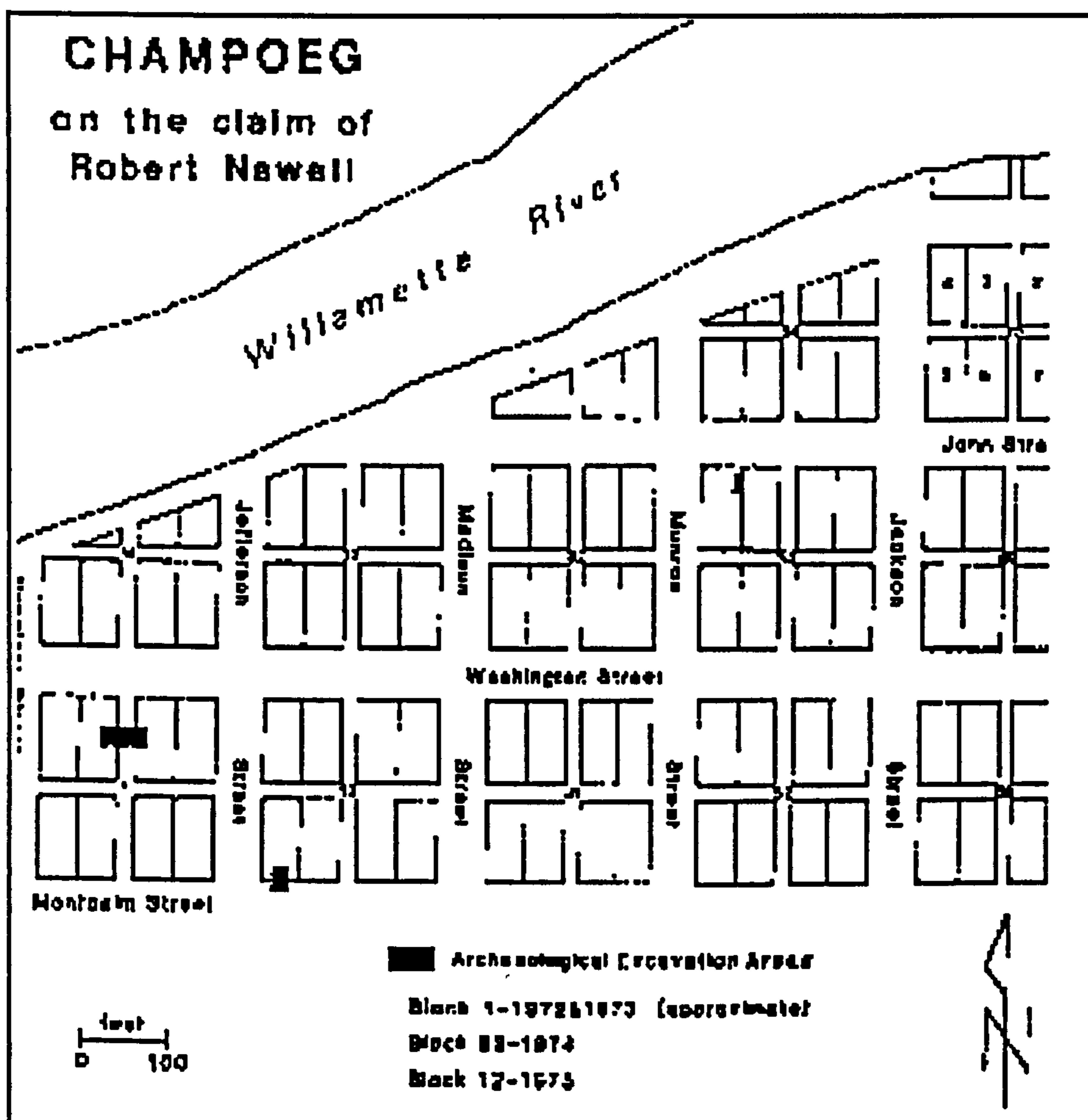
Map 7.32 : Trojan III location.



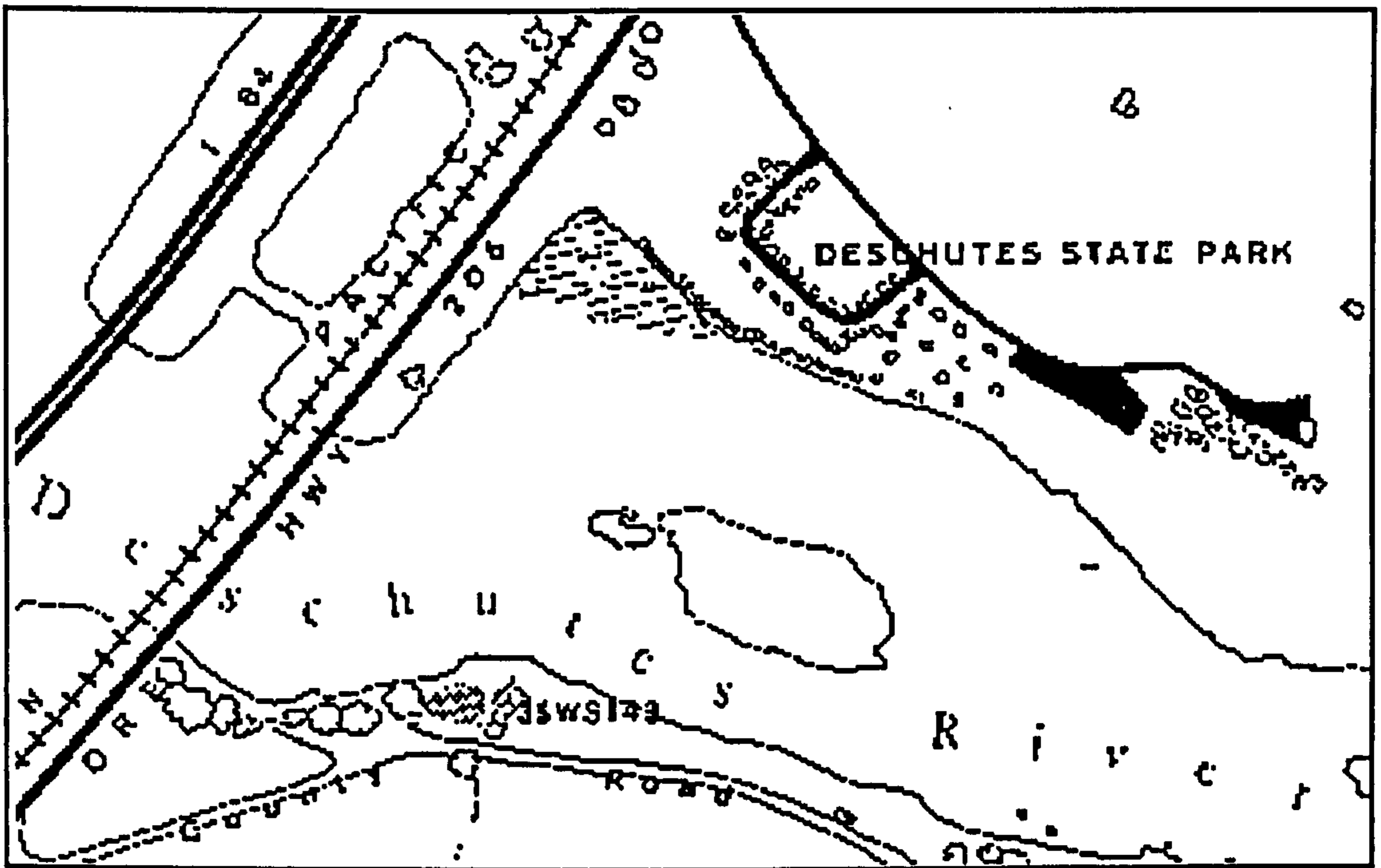
Map 7.33 : Trojan III site location.



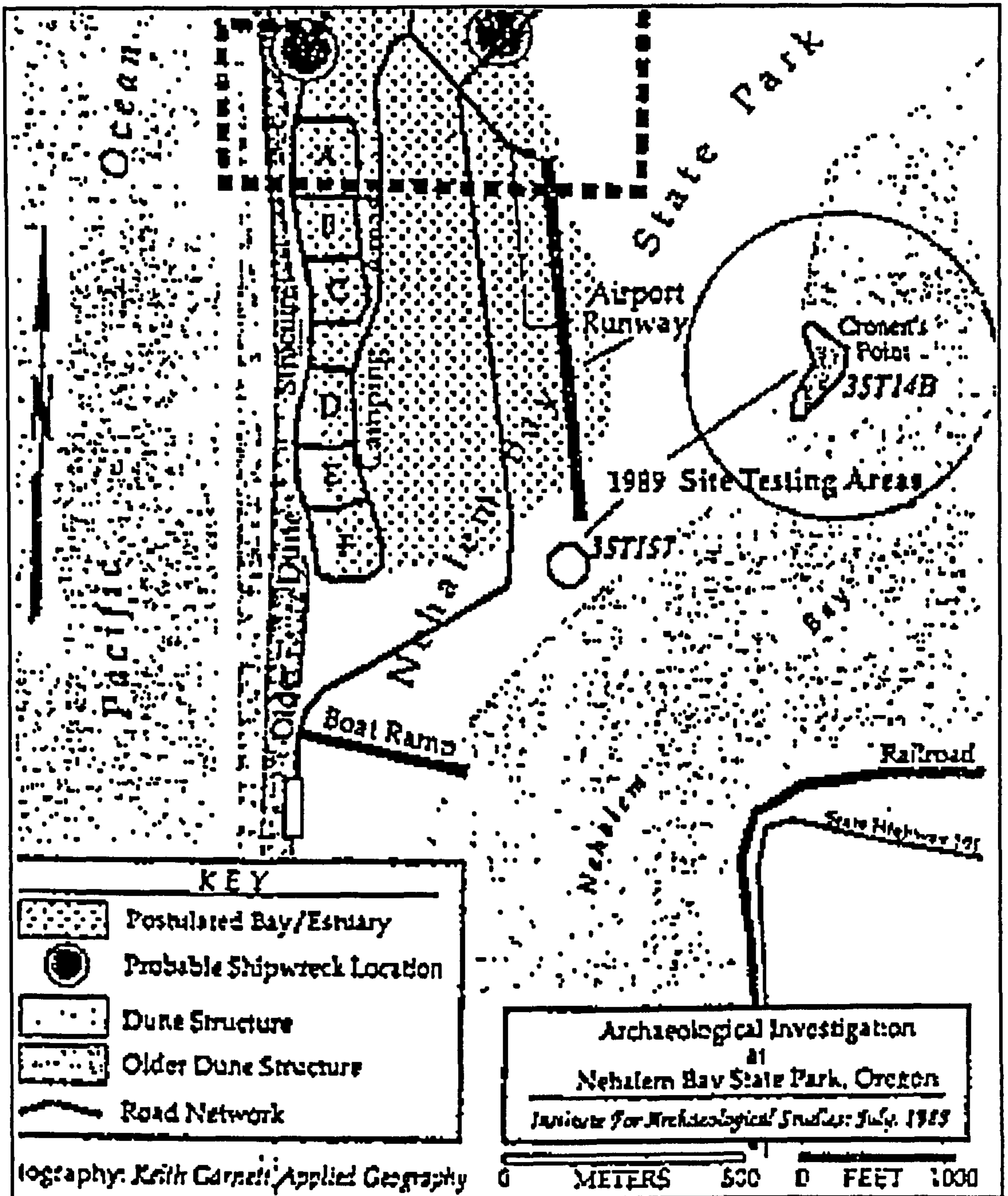
Map 7.34 : Champoeg and vicinity in 1840 (after Speulda 1988: 8).



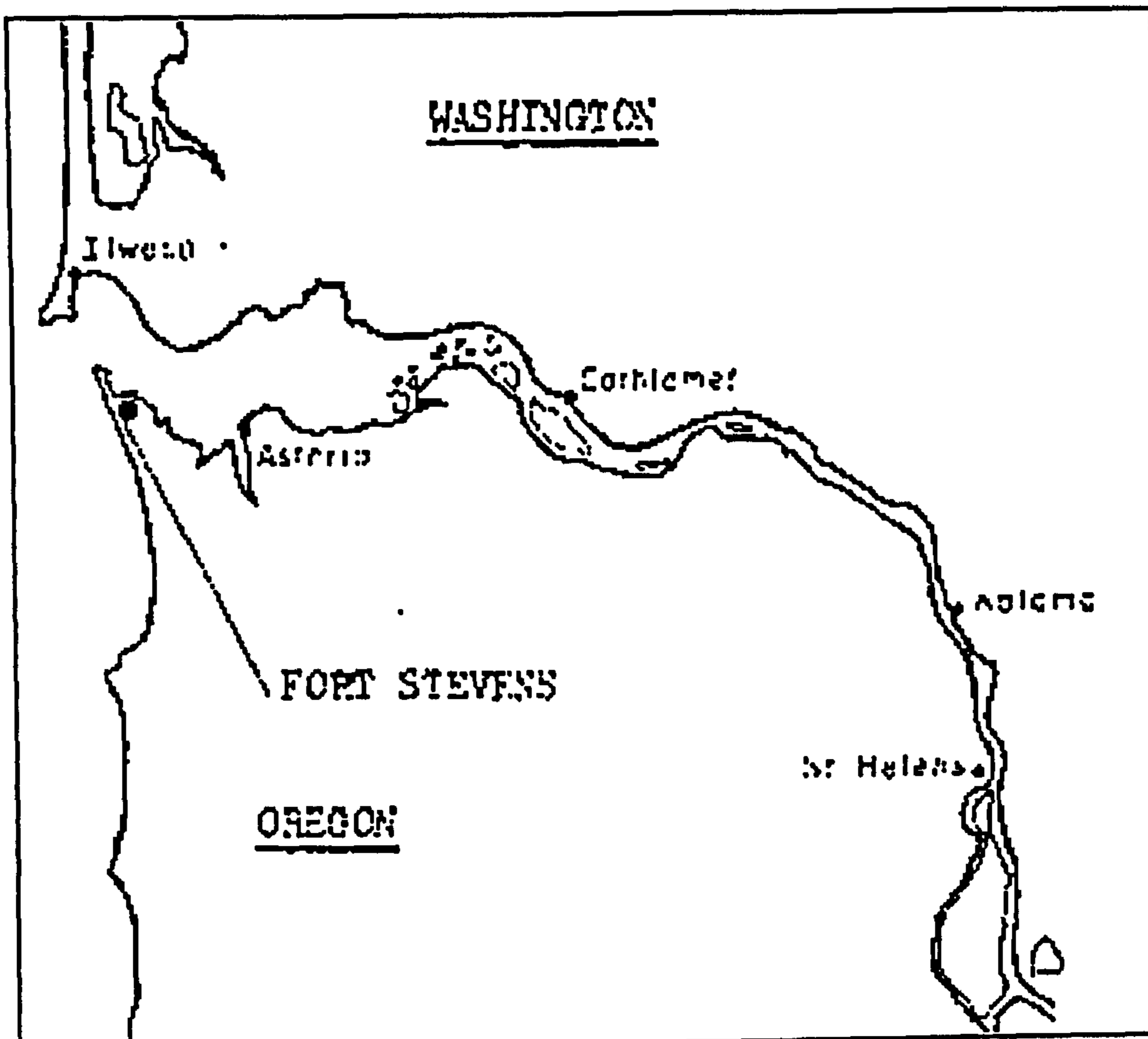
Map 7.35 : Champeog archaeological excavations 1972-1975
(after Speulda 1988: 27).



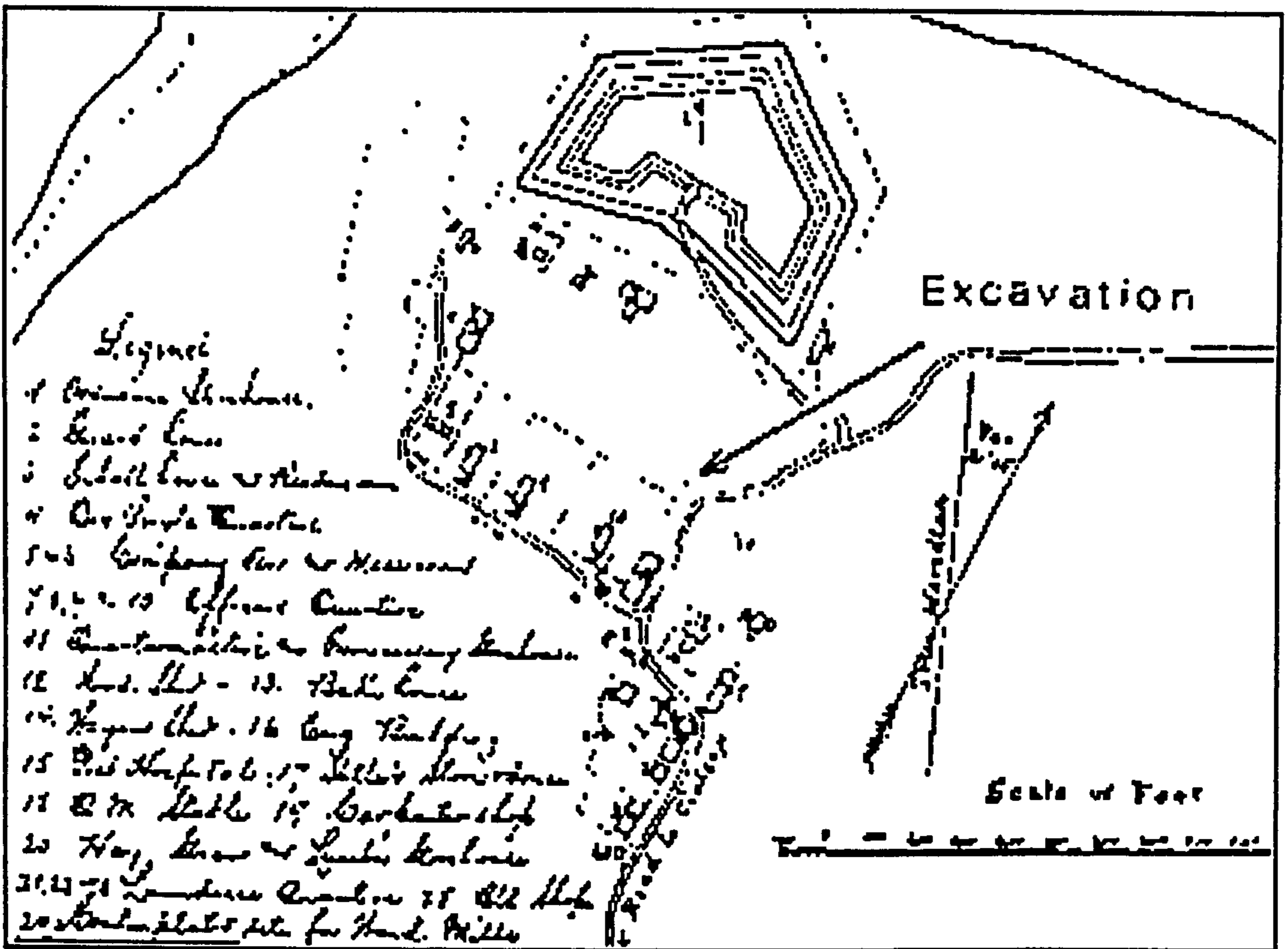
Map 7.36 : Deschutes State Park site (after Ellis 1984: 85).



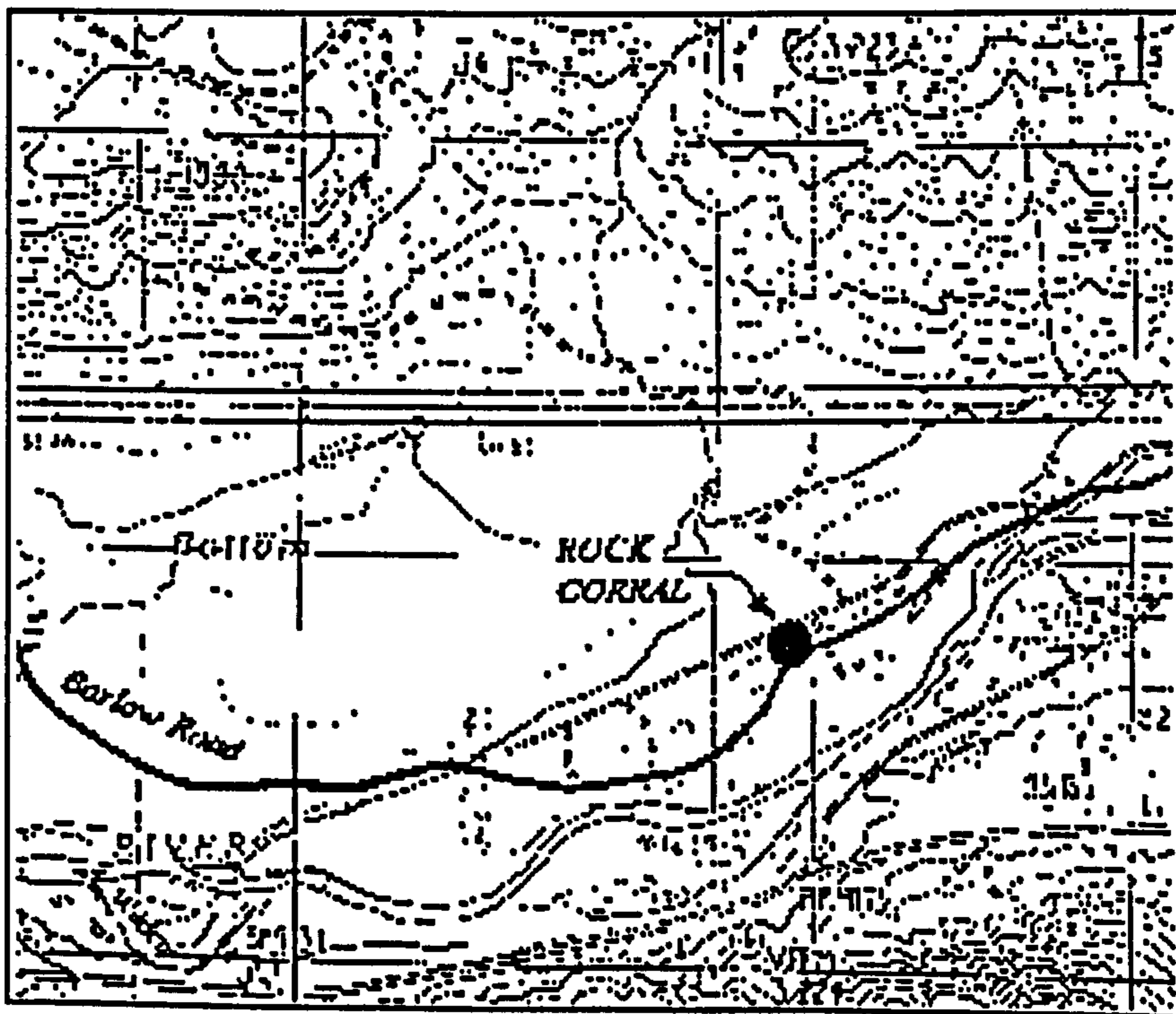
Map 7.37 : Cronin Point site map.



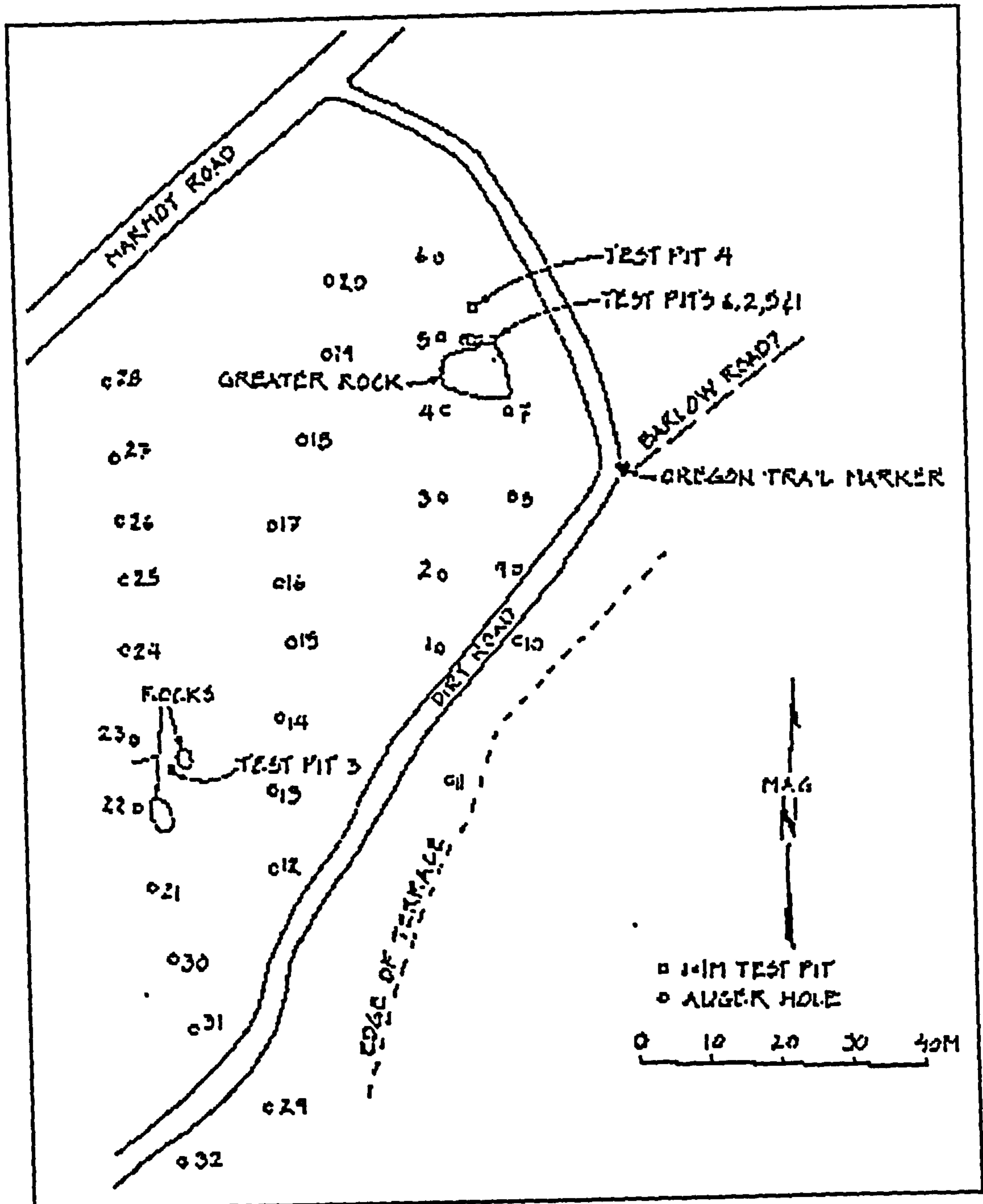
Map 7.38 : Fort Stevens location (after Harrison 1988: 6).



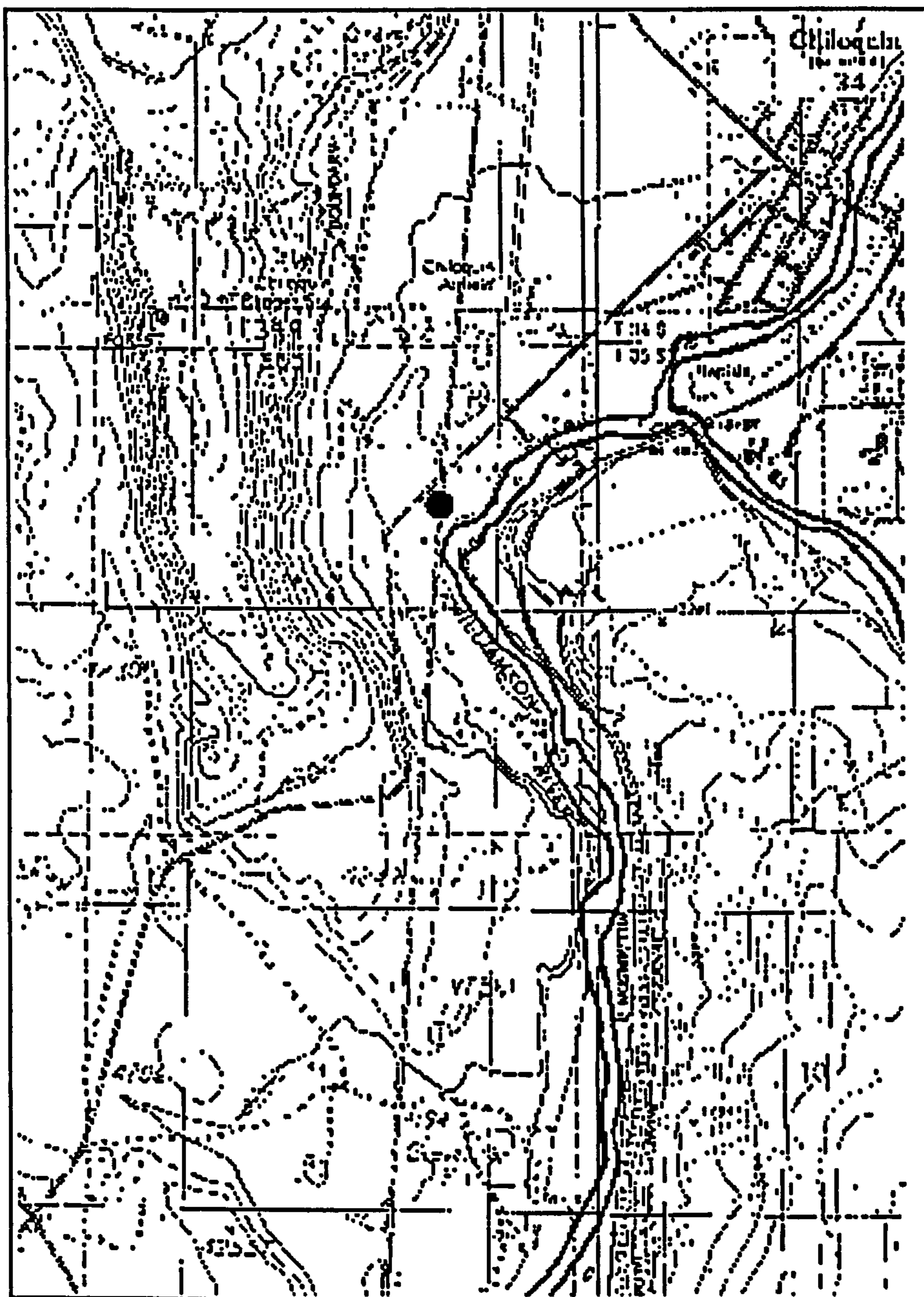
Map 7.39 : Fort Stevens excavation area, as depicted on an 1879 map of Point Adams (after Harrison 1988: 8)



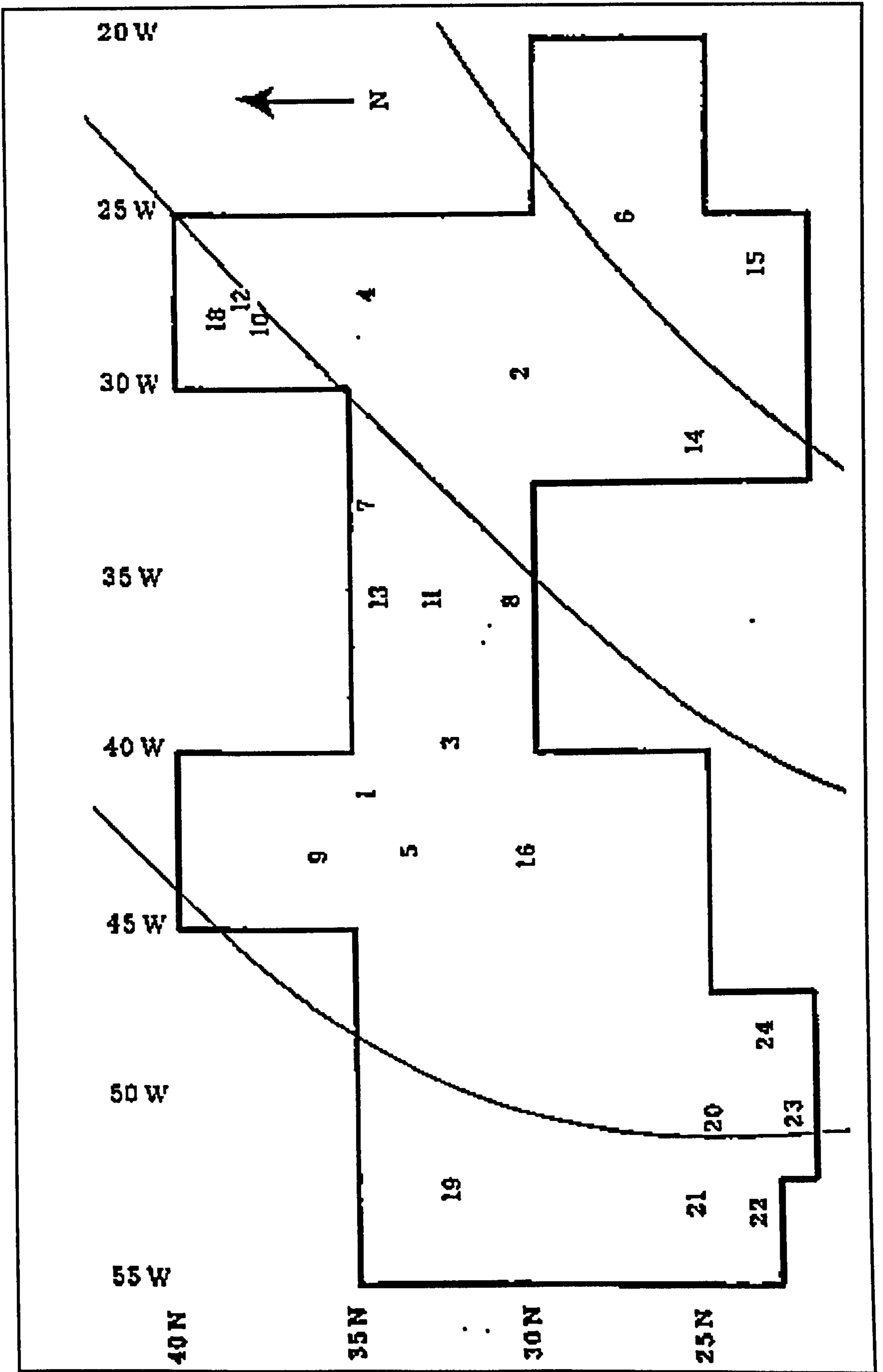
Map 7.40 : Rock Corral site location (after Musil et al. 1993: 2).



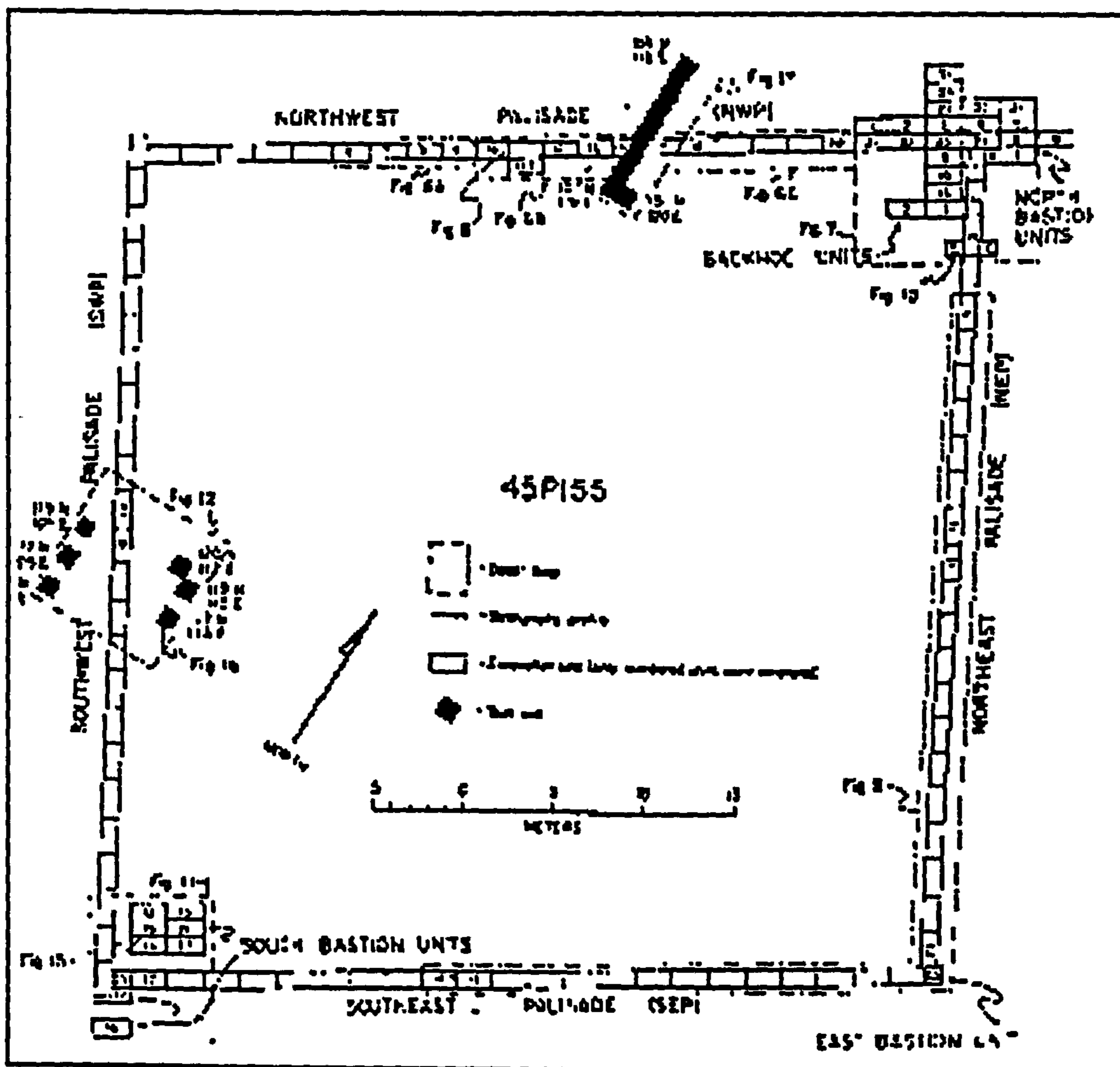
Map 7.41 : Rock Corral archaeological site (after Musil et al. 1993: 14).



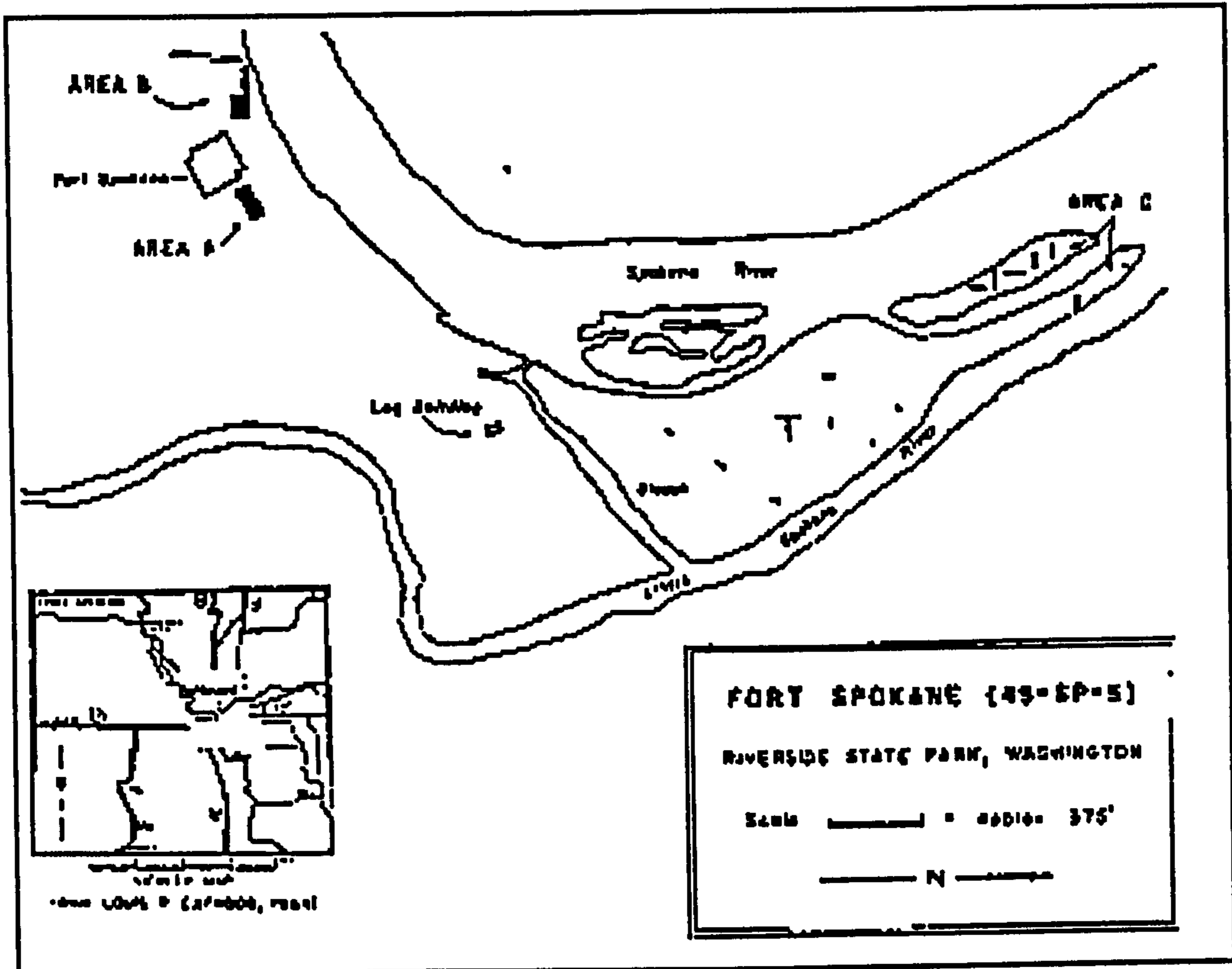
Map 7.42 : Bezuksewas Village location (after Cheatham et al. 1995: 2).



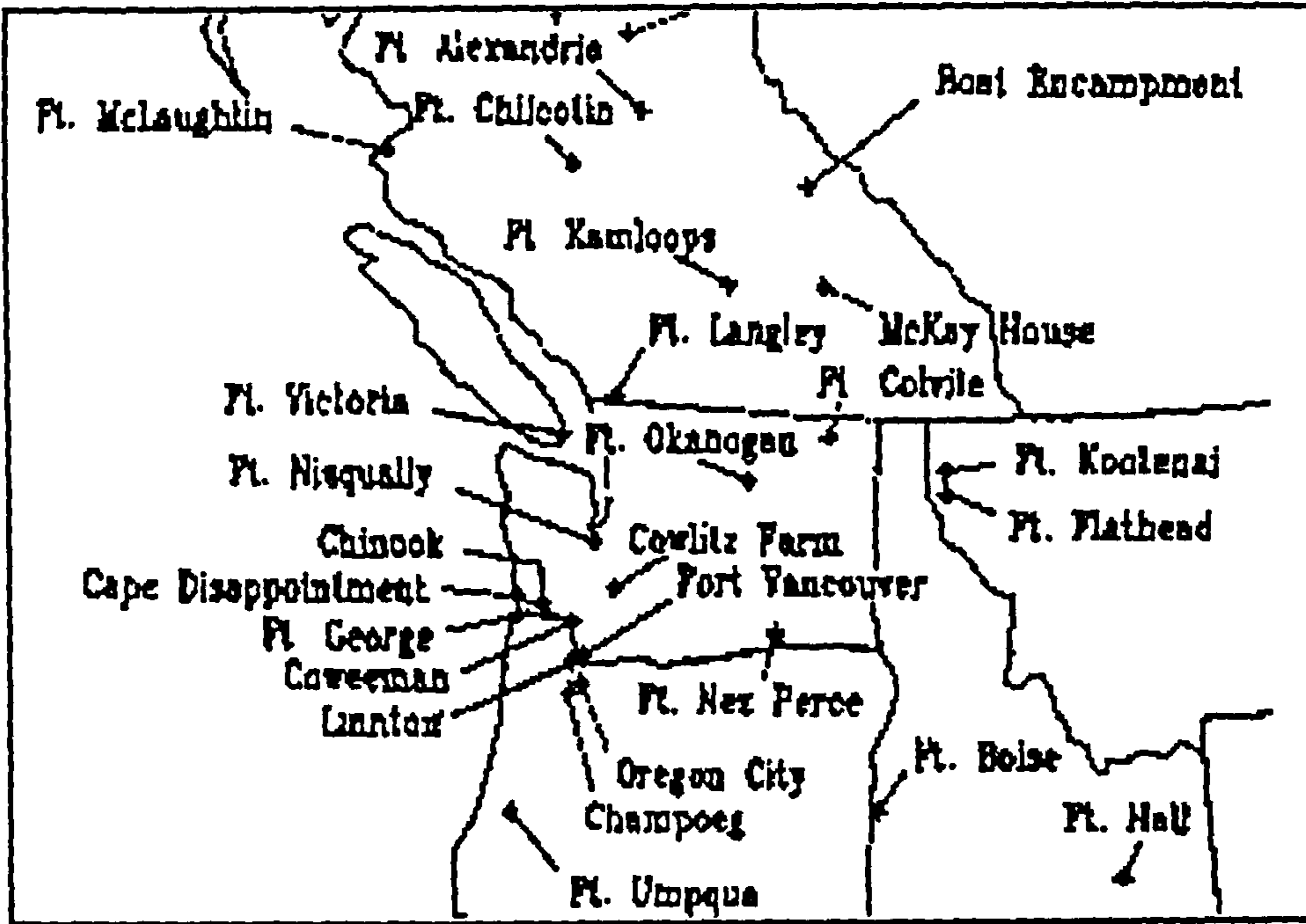
Map 7.43 : Site plan for the Asotin Creek site (Sprague 1959: 10).



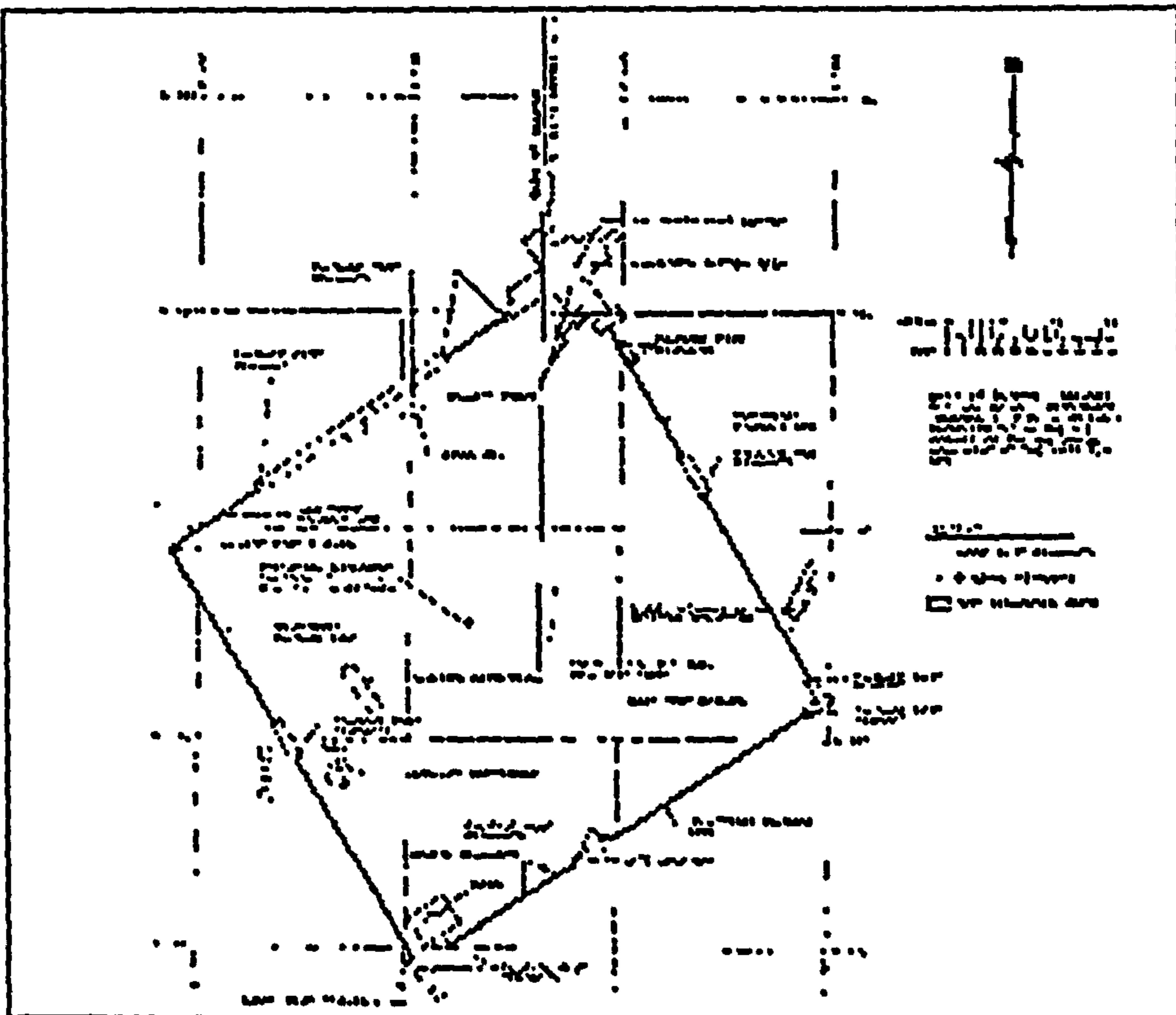
Map 7.45 : Fort Spokane (after Combes 1964: 9).



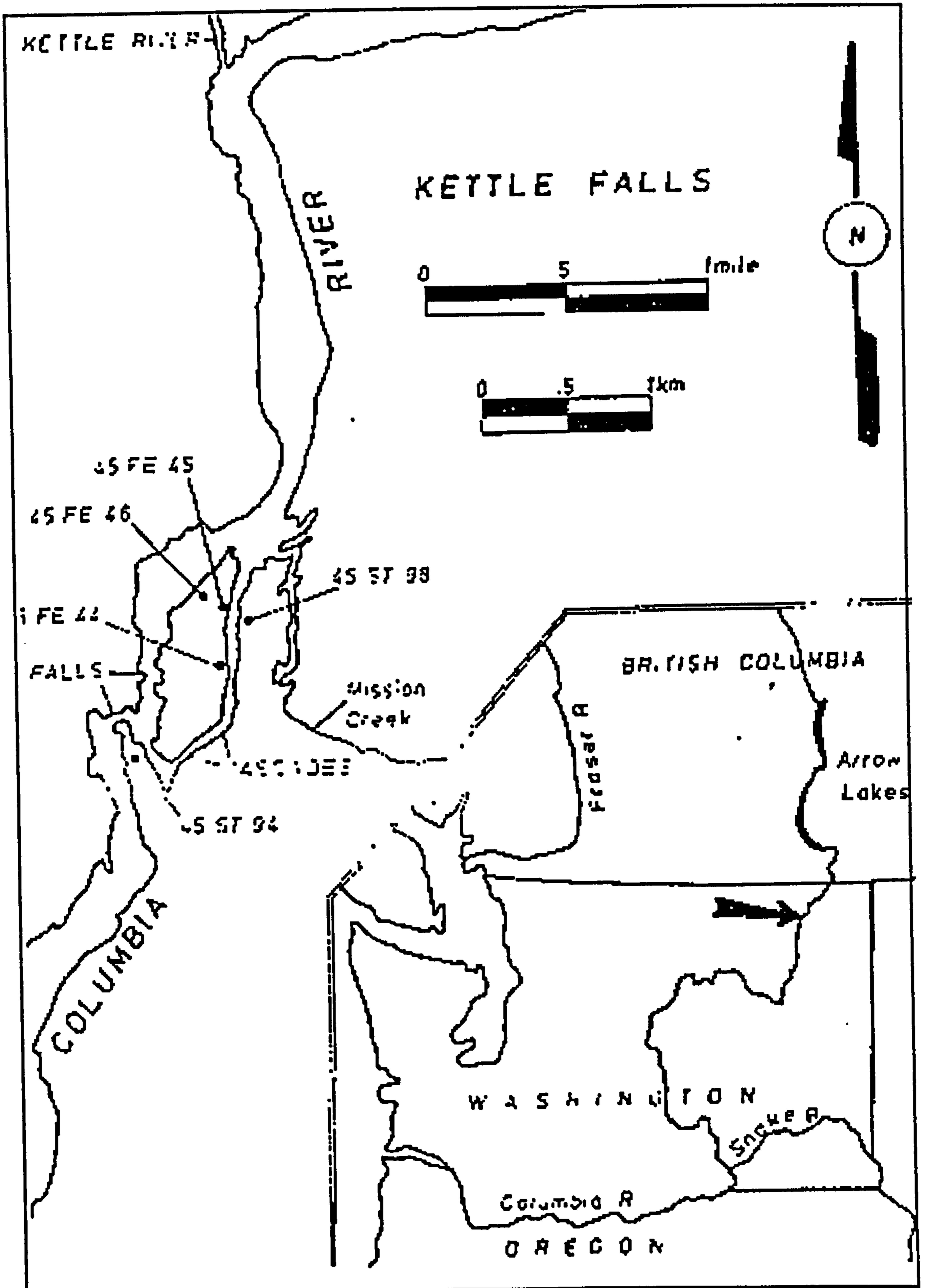
Map 7.46 : Fort Spokane area.



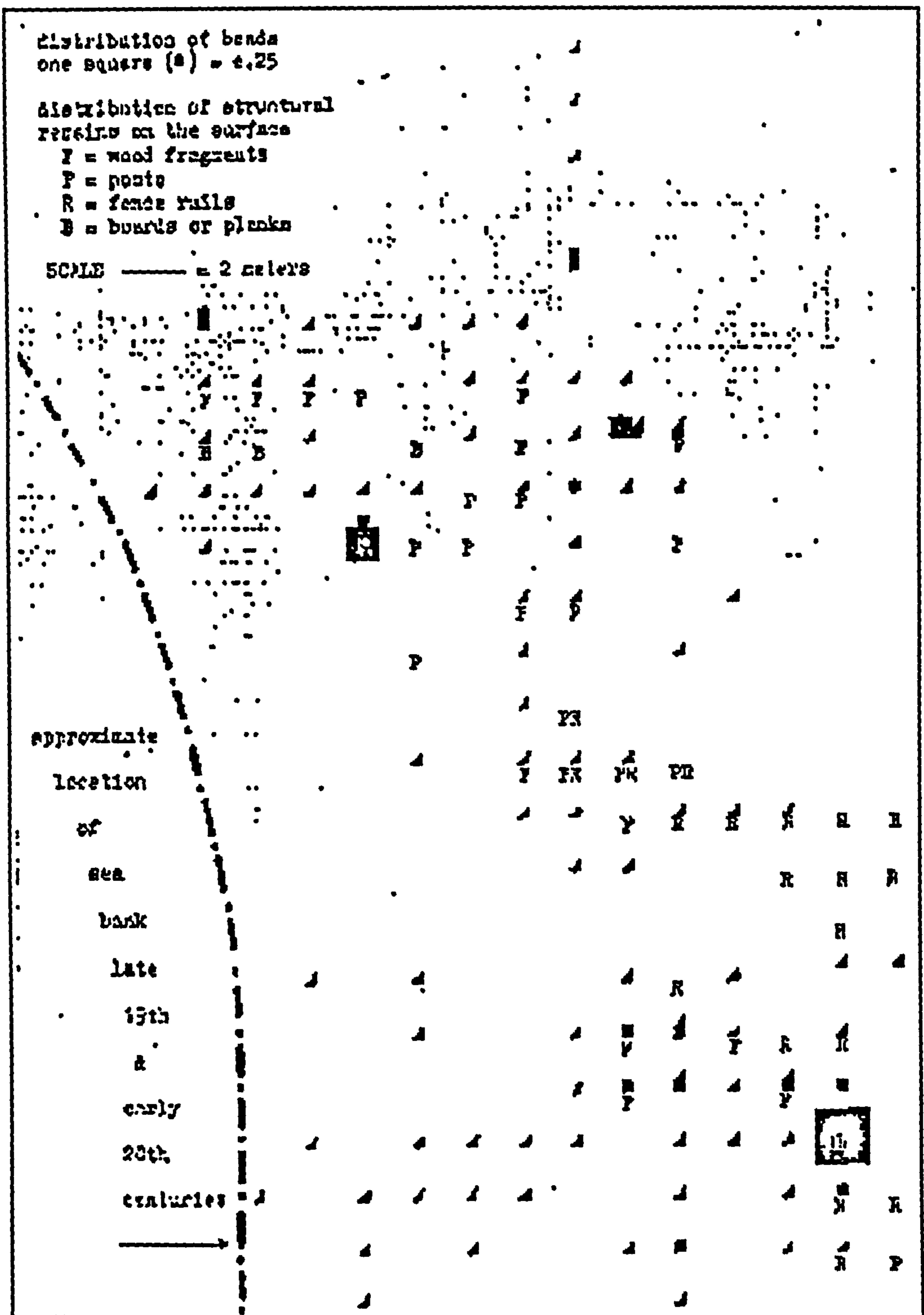
Map 7.47 : Fort Nisqually area (after Moura 1990).



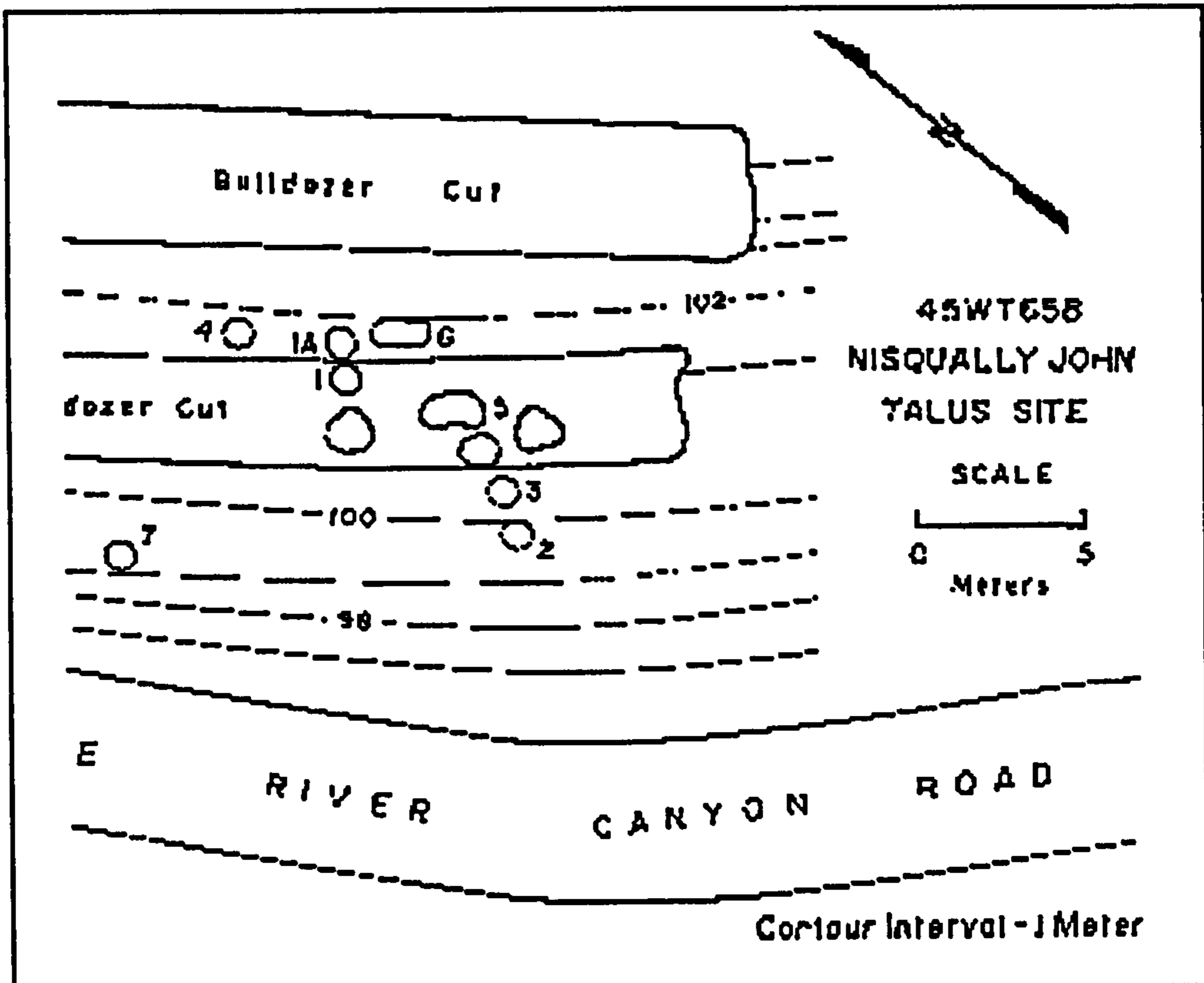
Map 7.48 : Fort Nisqually archaeological site (after Moura 1990).



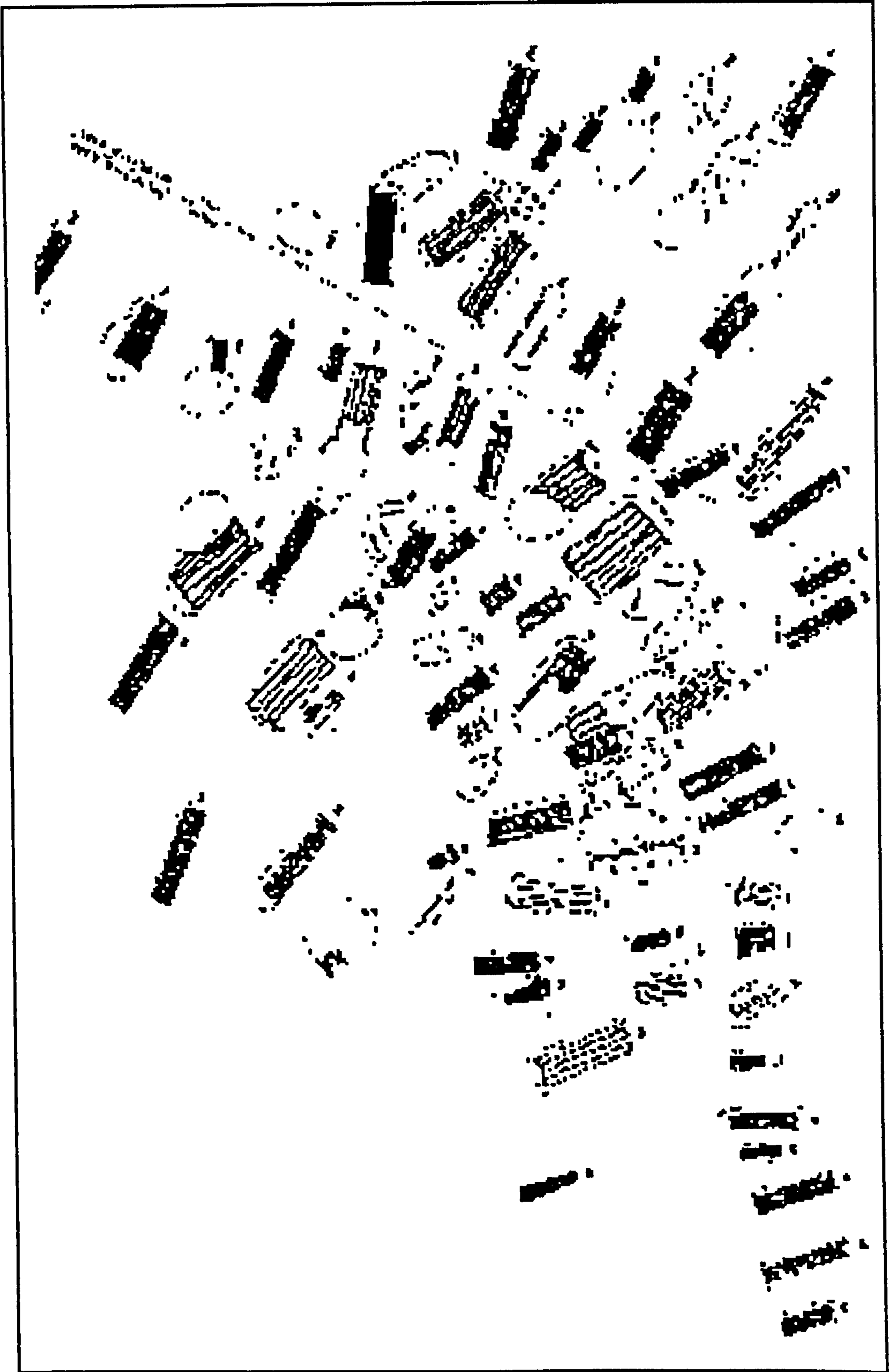
Map 7.49 : Kettle Falls complex (after Chance & Chance 1982: 2).



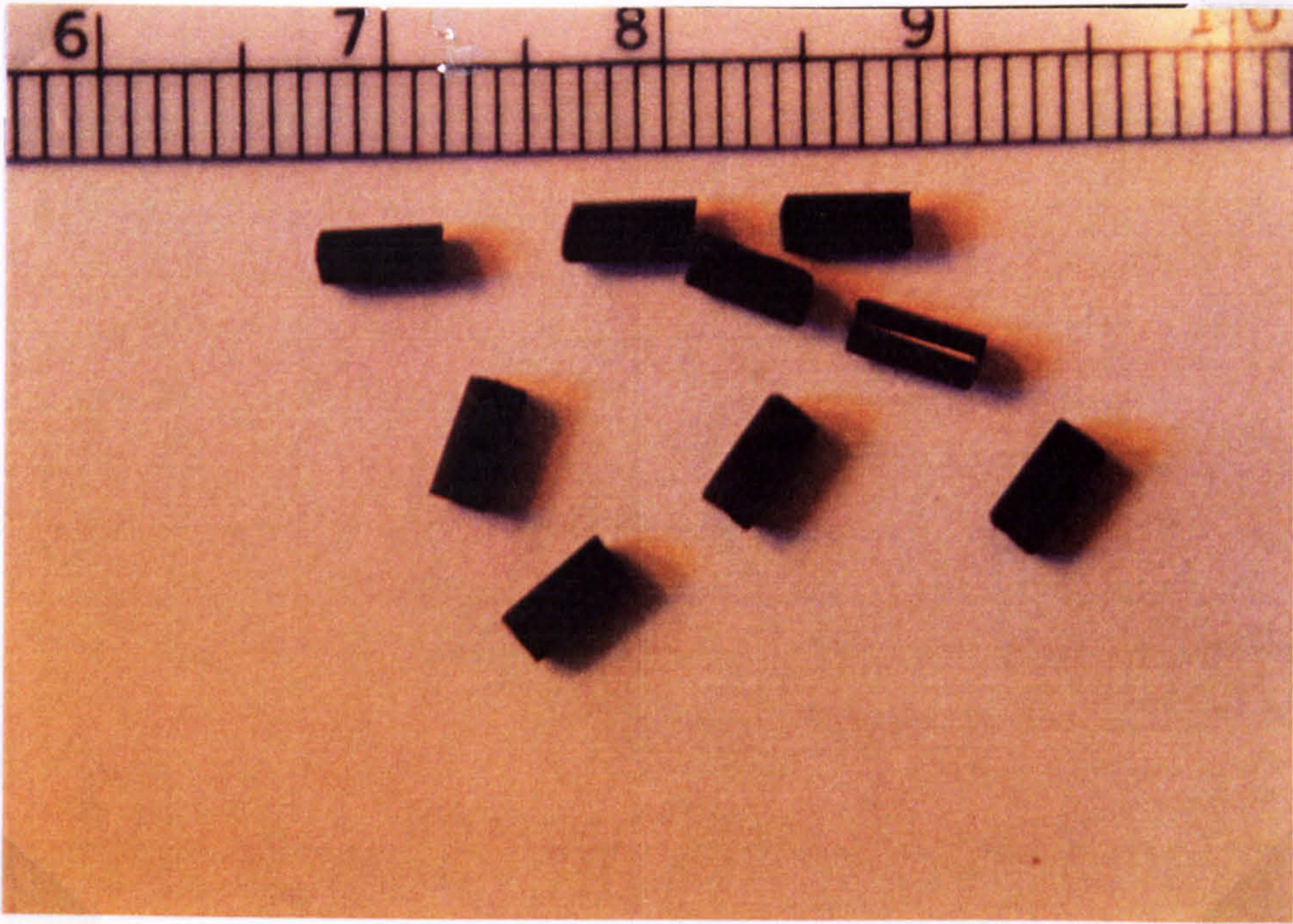
Map 7.50 : Ozette Village site (after Grosso 1970: 4).



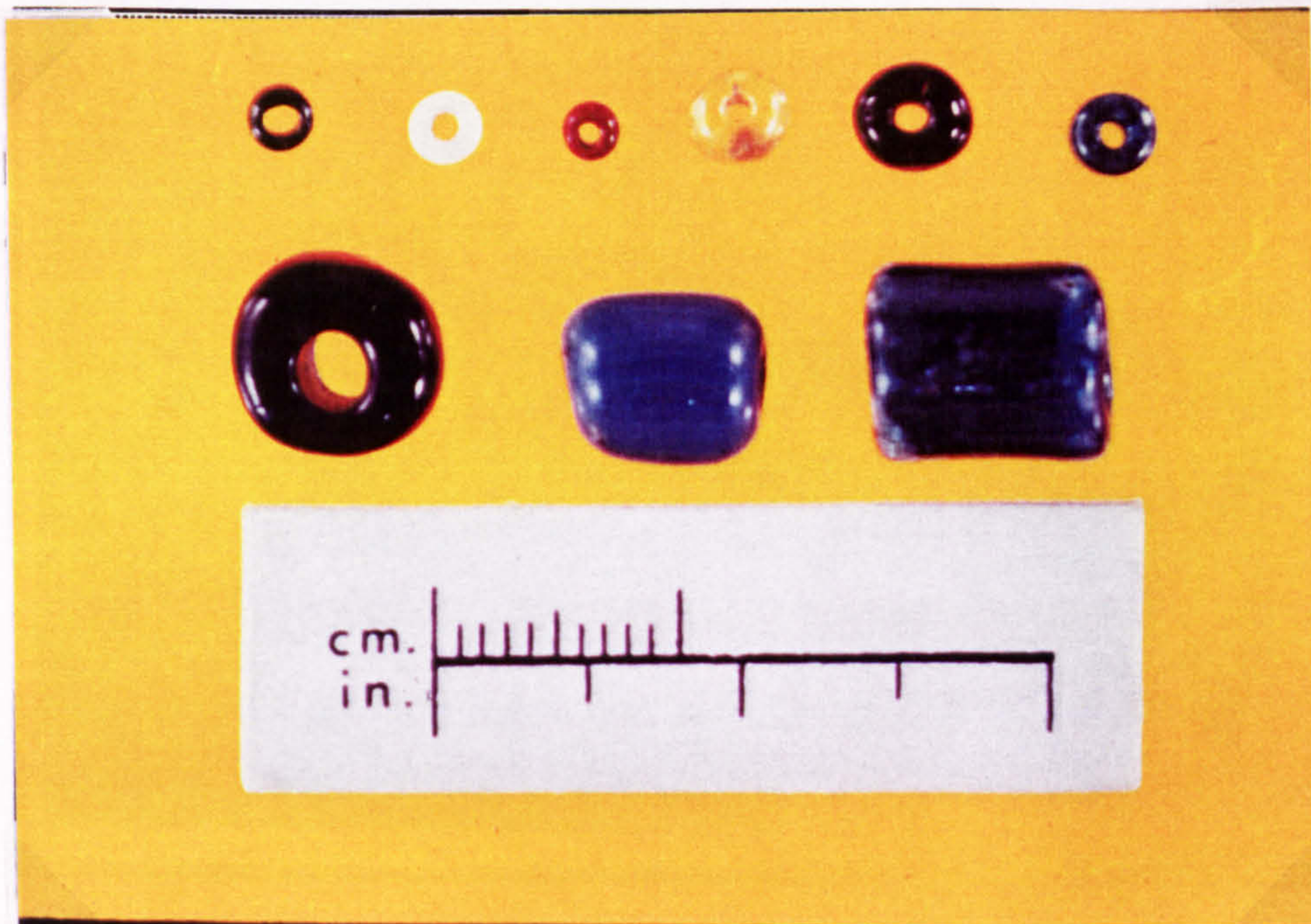
Map 7.52 : Nisqually-John Talus archaeological site (after Rodeffer & Rodeffer 1972: 6).



Map 7.53 : Alpaueyma burial site (after Rodeffer & Rodeffer 1972: 51).



Photograph 4.1: Drawn bead example.



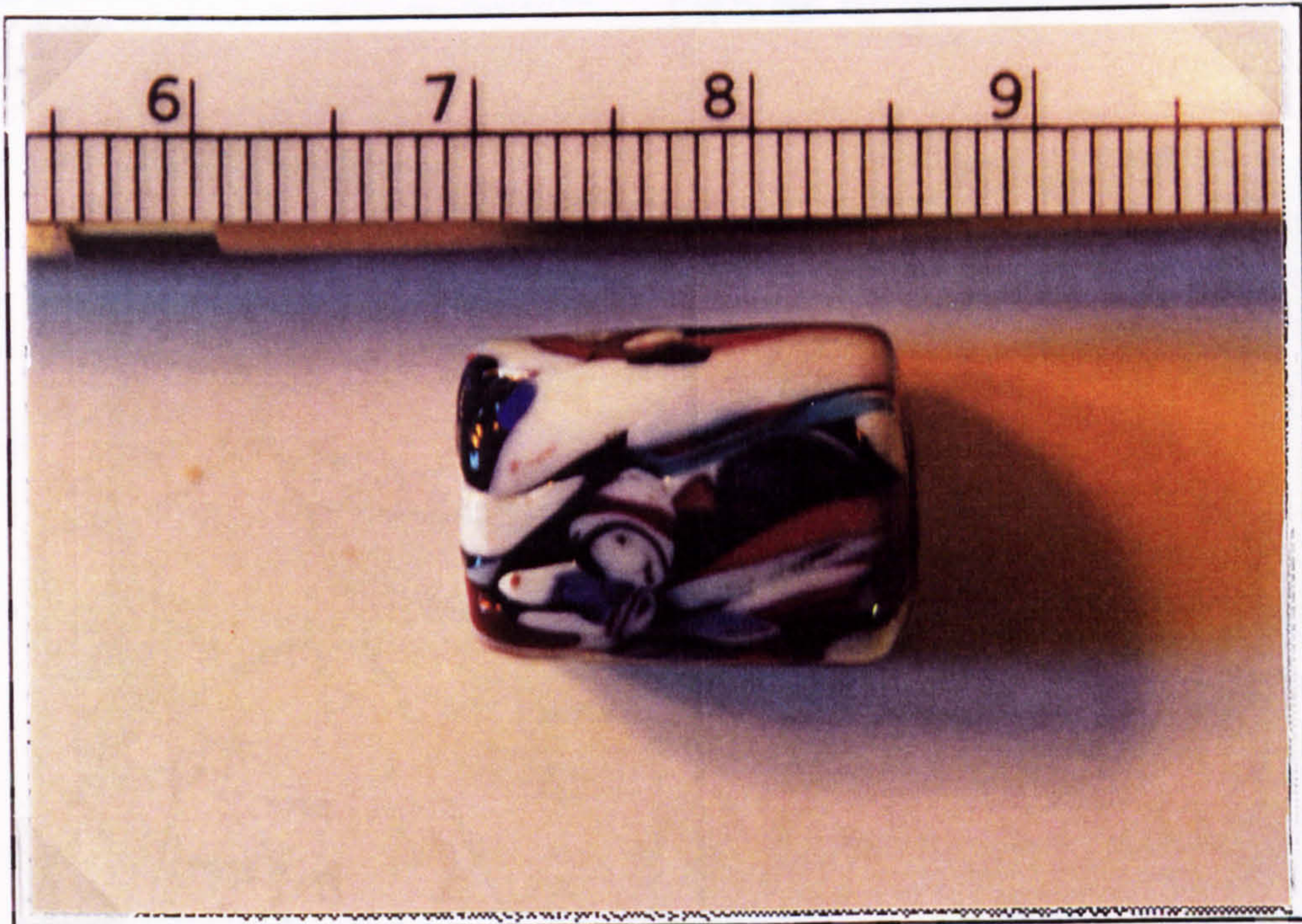
Photograph 4.2: Wound bead example.



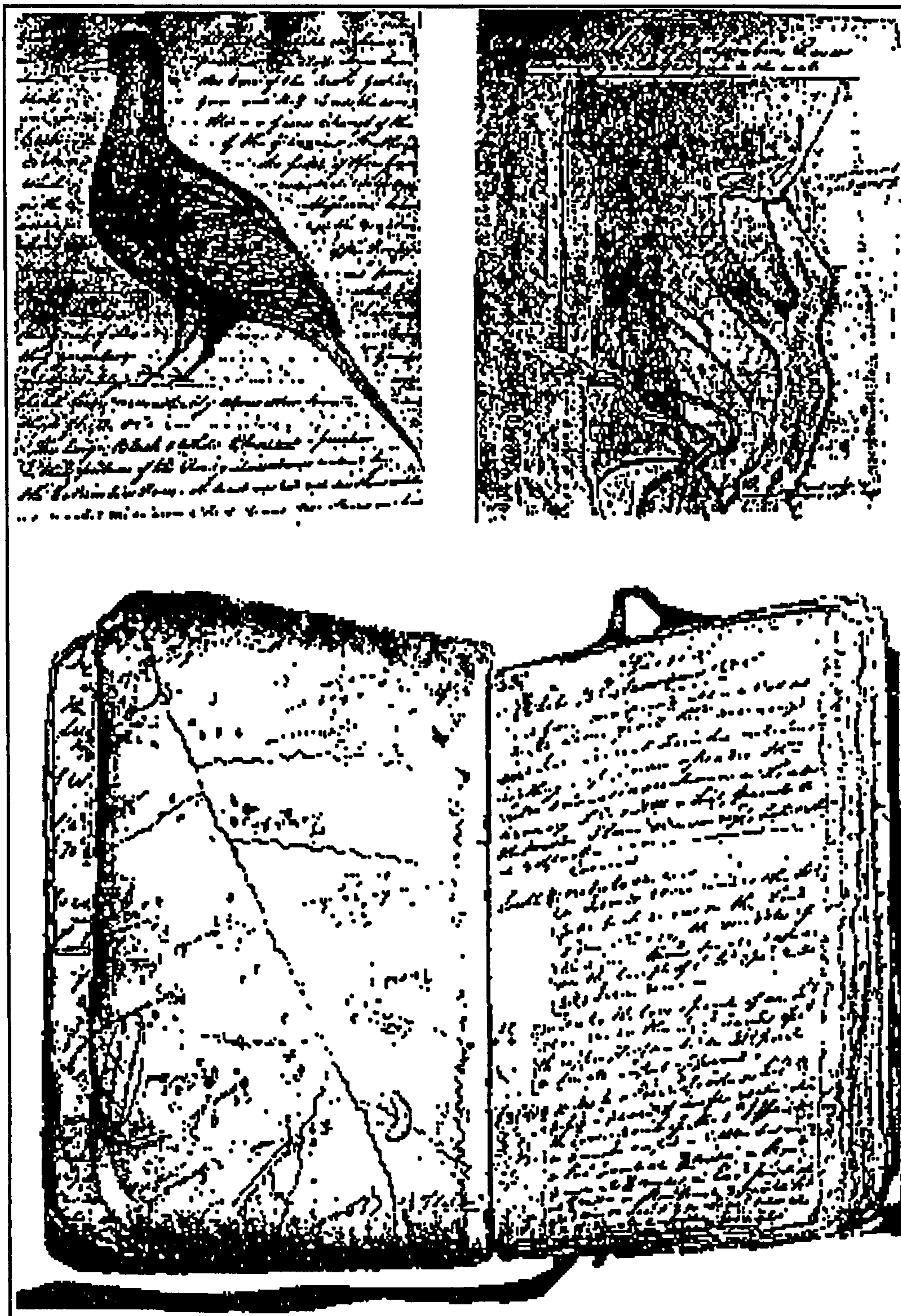
Photograph 4.3: Mold-Pressed bead example.



Photograph 4.4: Venetian blown glass "peasant" bead, circa 1850, courtesy of the Pitt-Rivers Museum of Ethnology, in Oxford.



Photograph 4.5: Millefiori bead example.



Photograph 5.1: William Clark's diary (Snyder 1970: 24).



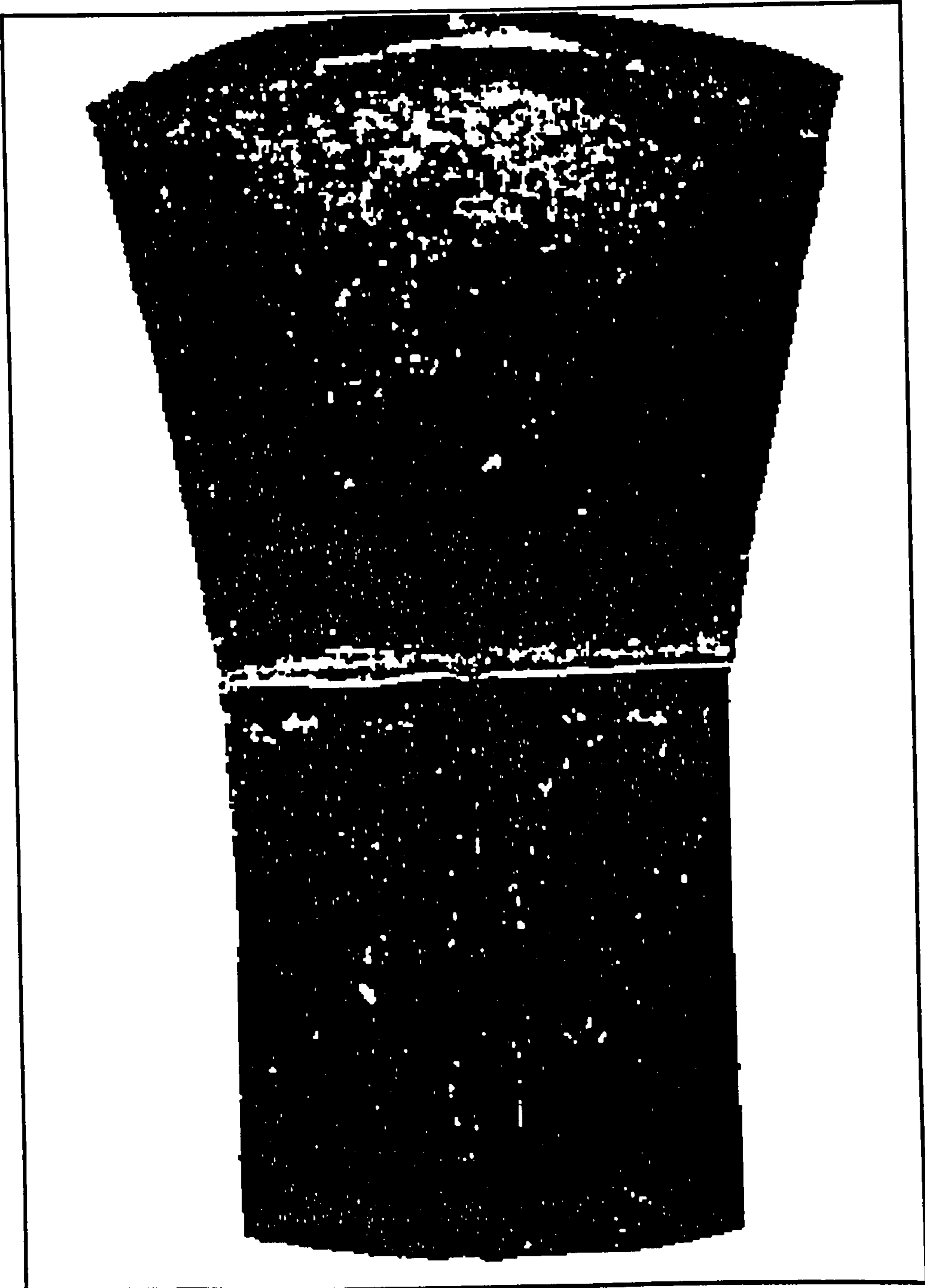
Photograph 5.2: Replica of Fort Clatsop, now an United States National Historical Monument, near Astoria, Oregon.



Photograph 5.3: Obverse side of a replica Lewis and Clark "Peace" medal in copper.



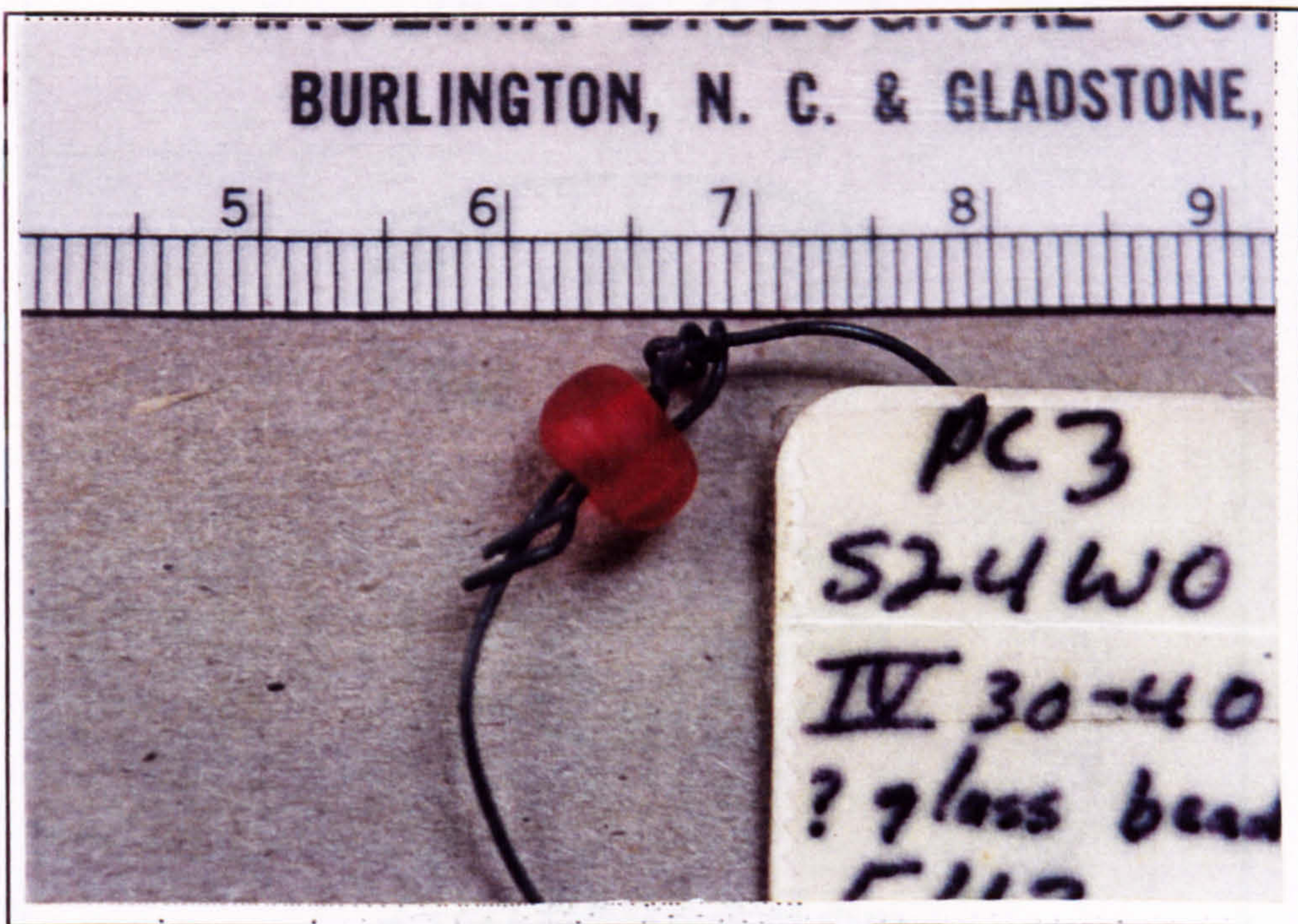
Photograph 5.4: Reverse side of the above medal.



Photograph 6.1: A copper shield, also called "tinnah," "tinneh," or "chief's copper" (after Opitz 1994: 15).



Photograph 7.1: Example of a Spanish-era bead from the Deer Springs site, courtesy of Dennis O'Neil and Palomar College, San Marcos, California.



Photograph 7.2: The "pony"-sized bead found at site PC-3, courtesy of Dennis O'Neil and Palomar College, San Marcos, California.

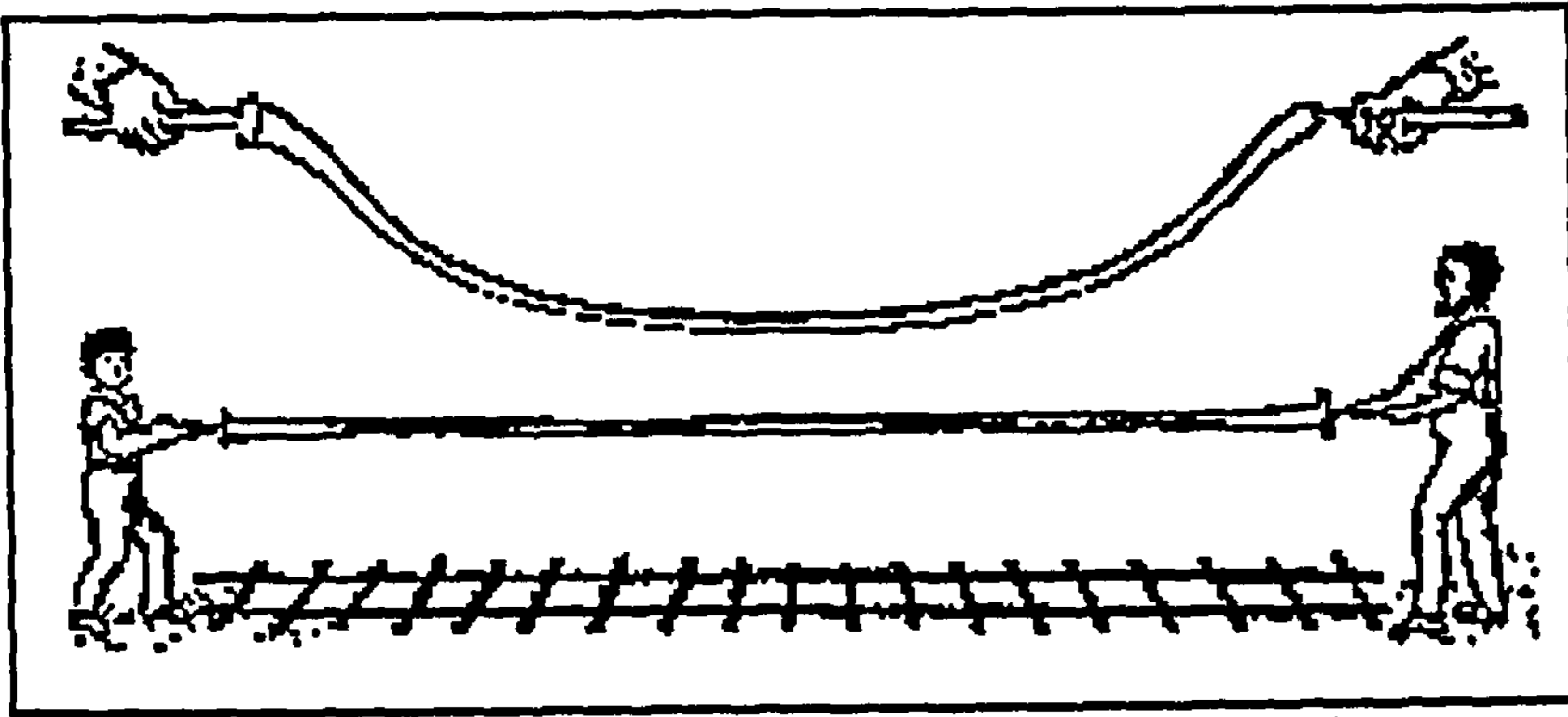


Illustration 4.1: Glass tubing being drawn by two workmen, prior to being cut into beads (after Ross 1989a).

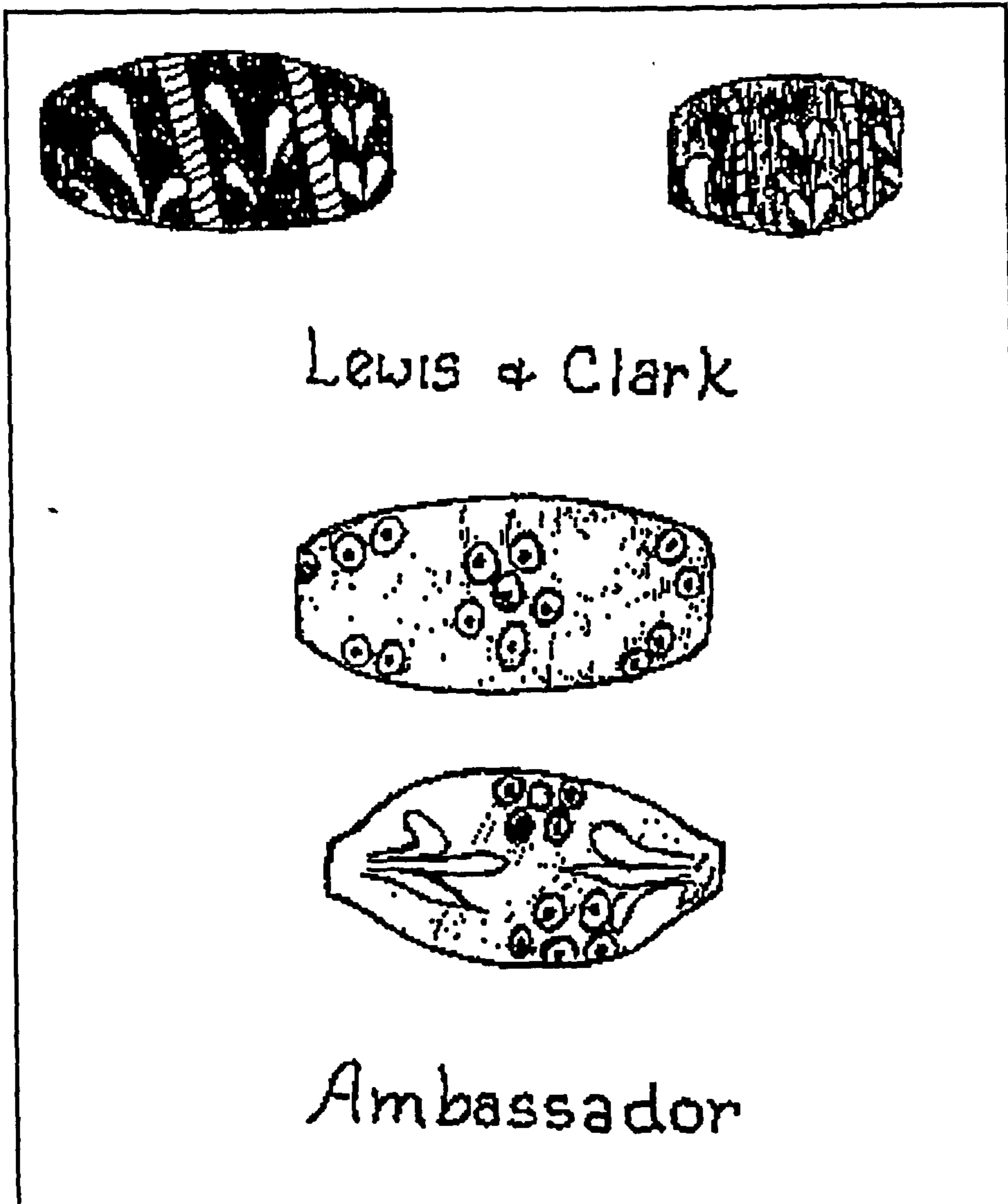


Illustration 4.2: "Lewis and Clark" and "Ambassador" beads (Byrd et al. 1992: 23).

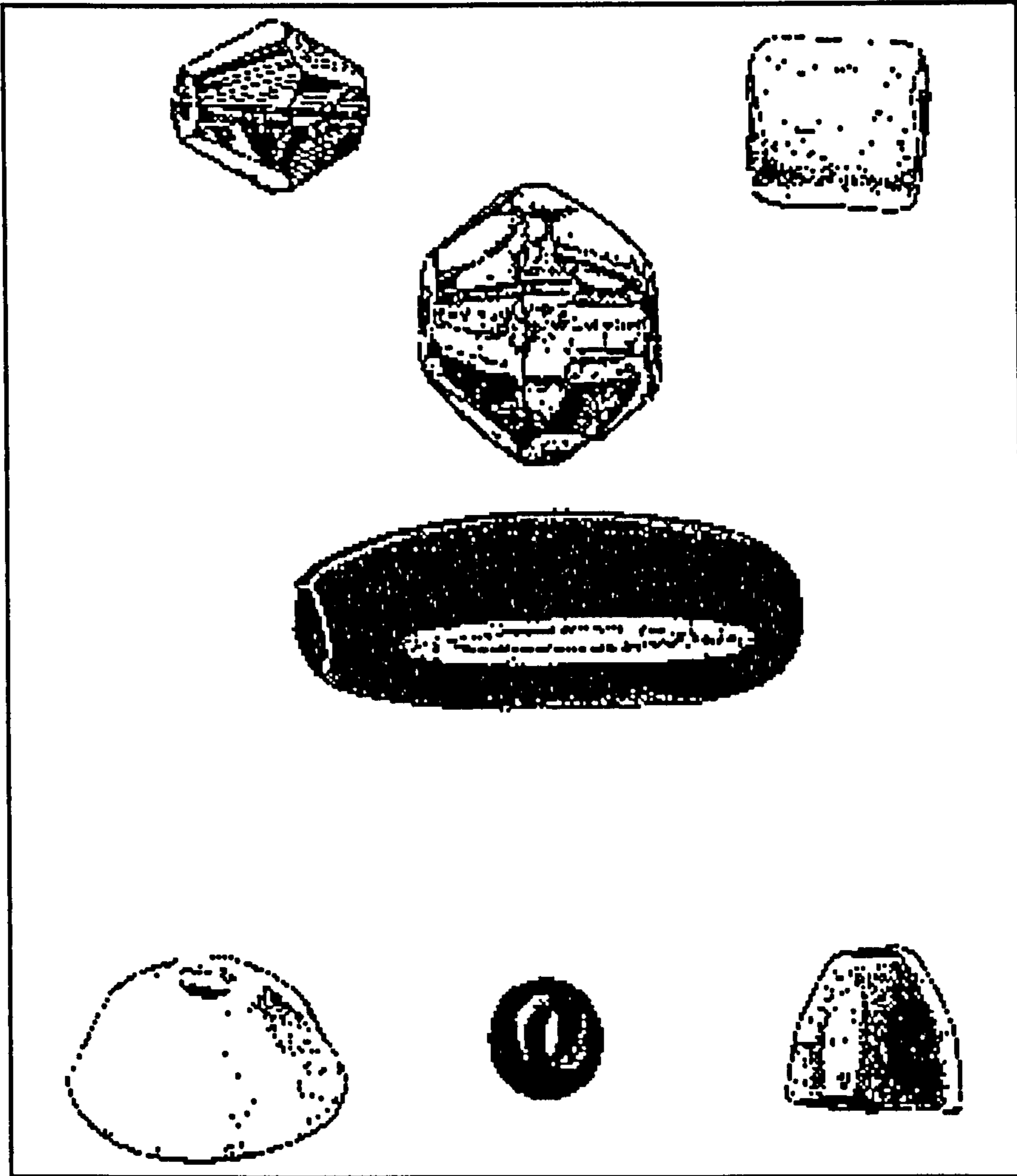


Illustration 7.1: Old Sacramento bead types as represented by Motz and Schulz (1980: 65).

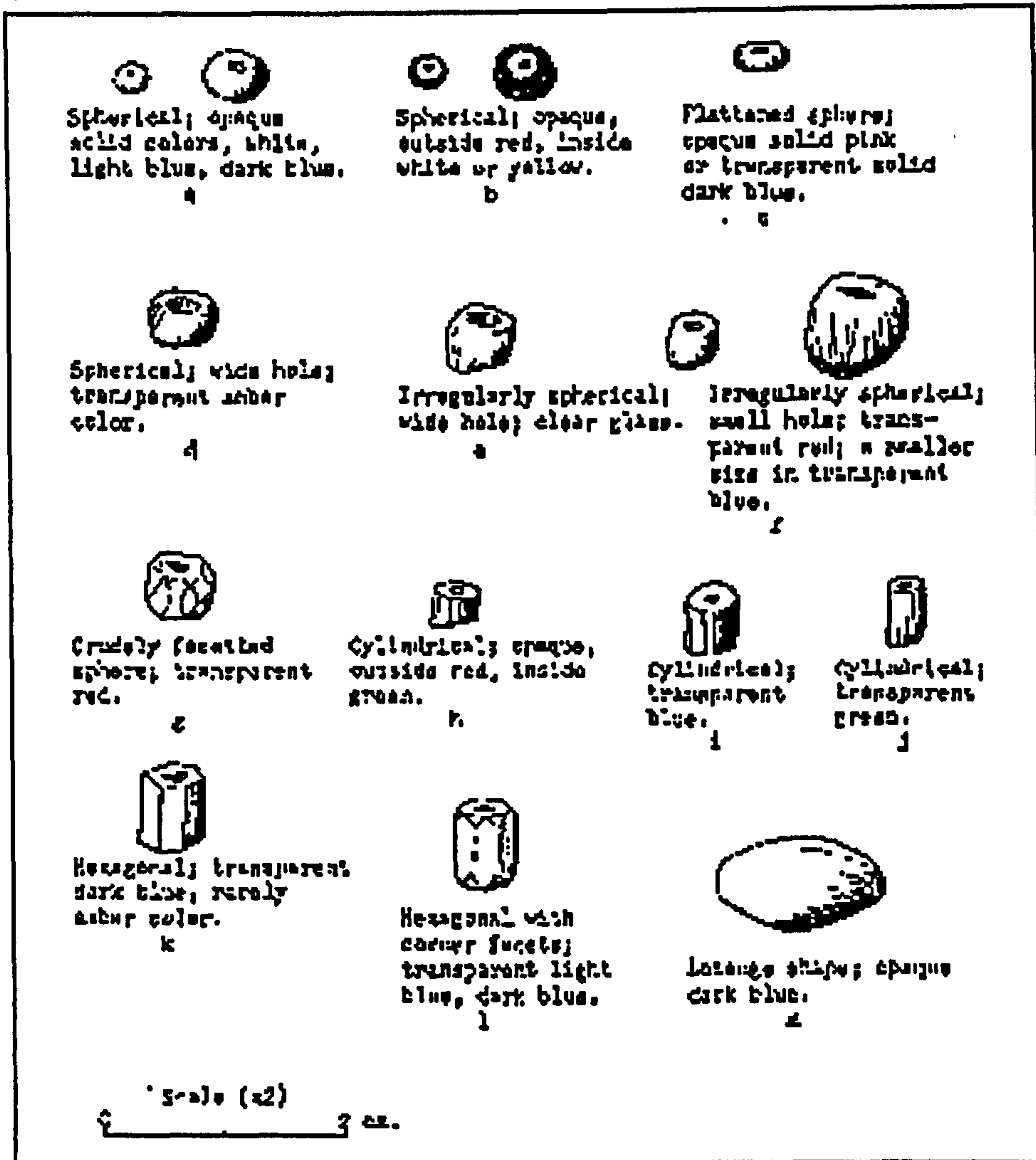


Illustration 7.2: Glass beads found in the Death Valley Salt Pan area (after Hunt 1960: 287).

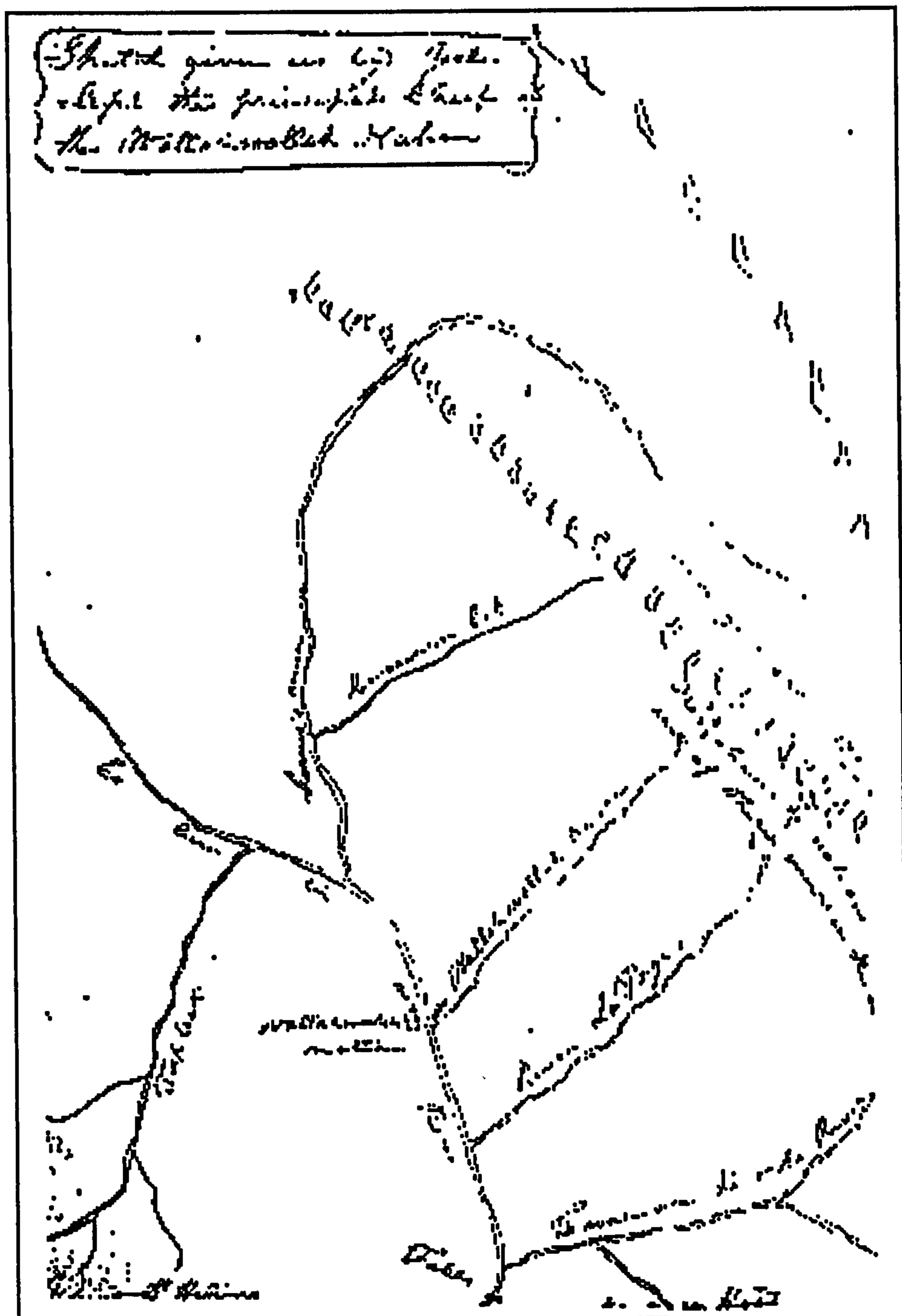


Illustration 7.3: Sketch of the Columbia River by William Clark (Snyder 1970: 173).

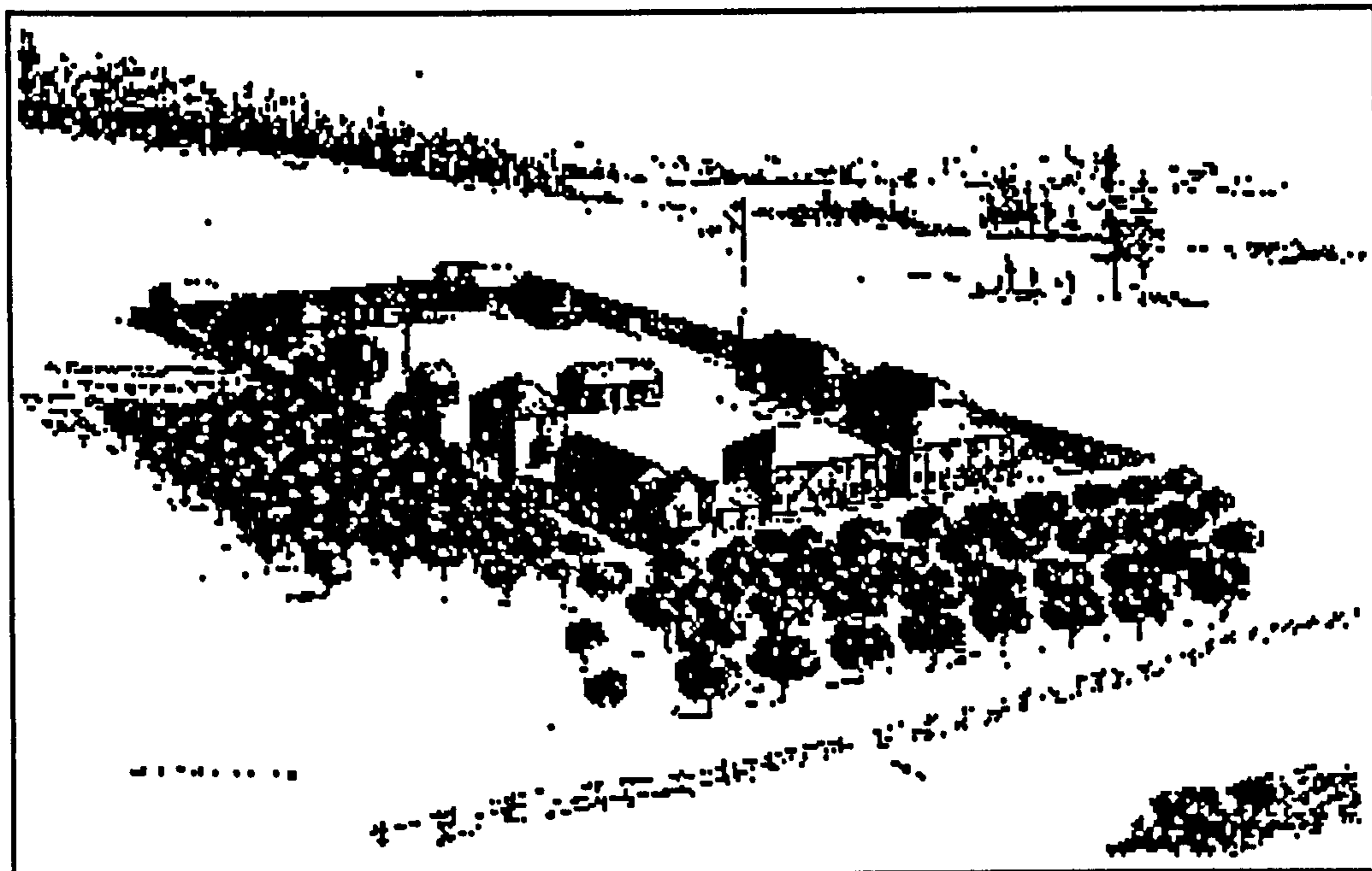


Illustration 7.4: The Hudson's Bay Company's Fort Vancouver as it may have appeared in 1845 (after Ross 1976a: 30).

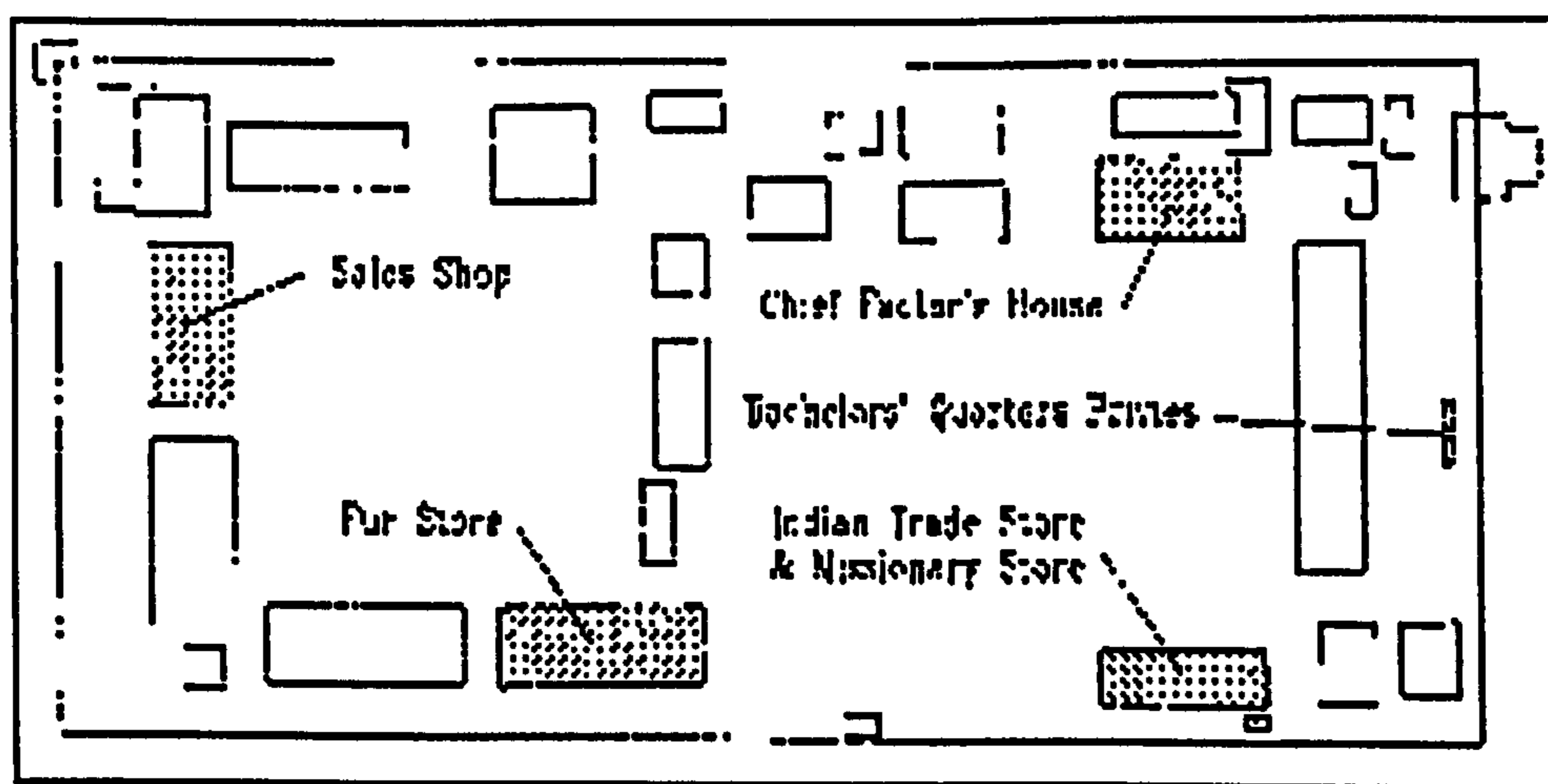


Illustration 7.5: The locations of the five major bead recovery sites within Fort Vancouver (Ross 1976b: 35).

Introduction

For those sites which do have tables, two types have been made. The first table will show the report's compilation of the recovered items, by listing "Style" (drawn, wound, etc.); "Type" (simple, monochrome, etc.); "Quantity" (of beads having that same "type"); "Diaphaneity" (TSP - transparent, TSL - translucent, OP - opaque); and "Color." The second table will represent the color schemes recovered from each site and lump them into single colors, when possible. For example, the color "Blue" will signify all variations of the color, with the exception of additional attributes, such as wavy lines or added tints. It is hoped that these secondary charts will show the colors most preferred by the Indians for each site.

Table 2.1: Glass beads as site-date determiners.

<u>Type</u>	<u>Approx. Manufacturing Availability</u>
Star beads (Chevrons)	After 1500
Wire-wound beads (Venice)	After 1528
Bugle beads	After 1579
Chevron beads/rounded ends	After 1580
White drawn beads	Between 1580 and 1890
Cornaline d'Aleppo/dark centers	Between 1600 and 1800-1825
Wound beads (French)	After 1600
Wound beads (Venice)	After 1645
Pony beads (France)	After 1675 in the Great Lakes region and after 1800 in the American West
Seed beads	After 1700
Blue seed beads	After 1820
Blown beads	After 1810
"Russian" bead	After 1820 from Bohemia
Prosser-molded (ceramic)	After 1820
Cornaline d'Aleppo/light-colored centers	After 1825 to 1840
Translucent Red beads/white & yellow cores	After 1830
Cornaline d'Aleppo without yellow cores	After 1860
Jet beads (France)	After 1860

Table 5.1: First contact among California Indians (Kroeber 1925; Heizer 1978; Emanuels 1991; Johnson 1992; Josephy 1994).

<u>GROUP</u>	<u>LOCATION</u>	<u>CONTACT</u>	<u>BY WHOM</u>
Achuwami	Pit River	1848	Miners
Alliklik	San Fernando	1770s	Spanish
Atsugewi	Mount Lassen	1830s	Hudson's Bay Company
Bajeno	Baja	1770s	Spanish
Cahuilla	Salton Sea	1774	Spanish

Chilula	Redwood Creek	1850s	Miners
Chimariko	Trinity River	1849	Miners
Chumash	Southern Coast	1770s	Spanish
Coastal Miwok	Northern Coast	1770s	Spanish
Costanoan	Central Coast	1700s	Spanish
Cupeno	Southern	1770s	Spanish
Diegueno/Ipai	Southern	1769	Spanish
Esselen	Carmel River	1602	Spanish
Fernando	Los Angeles	1769	Spanish
Gabrielino	Los Angeles	1769	Spanish
Hupa	Trinity River	1850	Miners
Juaneno	Southern Coast	1542	Spanish
Kamia/Tipai	Southern	1770s	Spanish
Karok	Klamath River	1850	Hudson's Bay Company
Kato	Mendocino	1850s	Miners
Kawaiisu	Havilah	1780	Spanish
Kitanemuk	Tehachapi	1770s	Spanish
Kumeyaay	Southern	1770s	Spanish
Luiseno	Southern	1542	Spanish
Maidu	North central	1800s	Spanish/fur trappers
Mattole	Northwest	1850s	Miners
Miwok	Coast to Hills	1579	Francis Drake
Modoc	Northeast	1850	Americans
Mohave	Mohave Desert	1600s	Spanish
Nongatl	Ruth Lake	1850s	Miners
Paiute	East	1600s	Spanish
Patwin	Yolo County	1790s	Spanish
Pomo	Clear Lake	1700s	Spanish
Salina	Central Coast	1770s	Spanish
Serrano	San Bernardino	1771	Spanish
Shasta	Northern	1850s	Miners
Sinkone	Shelter Cove	1850s	Miners
Tolowa	Smith River	1800s	Jedediah Smith
Tubatulabal	Kern River	1776	Spanish
Wailaki	Eel River	1850s	Miners
Wappo	Napa	1800s	Spanish
Washo	East-Central	1840s	Fur trappers
Whilkut	Mad River	1850	Americans
Wintun	Central Valley	1821	Spanish
Wiyot	Eel/Mad Rivers	1850s	Americans
Yahi	Central-East	1850s	Miners
Yana	Northeast	1850s	Miners
Yokuts	Central Valley	1790s	Spanish
Yuki	Fort Bragg	1856	American farmers
Yuma	Southeast	1540	Spanish
Yurok	Klamath River	1827	Hudson's Bay Company

Table 5.2: List of goods taken for exchange by Lewis and Clark (after Ronda 1984: 8-9).

Trinkets

Blue glass beads
White glass beads
Brass buttons
Rings
Hawk's bells

Textiles

Blankets
Calico shirts
Ruffled shirts

Cooking Utensils

Camp kettles
Brass kettles (8)
Pots
Corn grinders

Peace medals	<u>Miscellaneous</u> _	<u>Hunting/Fishing</u> _
<u>Personal Items</u> _	Face paint	Knives (132)
Ivory Combs	Sewing needles	Fishhooks (2800)
Brooches (500)	Thimbles	Axes and Tomahawks
	Tobacco	Moccasin awls

Table 5.3: Hudson's Bay Company Athabasca Department Bead Supply Order of 1821-1822 (after Simpson 1938: 142-143).

<u>Quantity</u>	<u>Type</u>	<u>Description</u>
114	Bundles	Assorted common colored beads
40	Bundles	Agate beads
22	Pounds	White enamelled beads
26	Pounds	White common beads
77	Pounds	Light blue common beads

Table 5.4: Hudson's Bay Company Bead Supply Order of 1844.

<u>Amount</u>	<u>Type</u>	<u>Description</u>
30	Bunches	Aquamarine necklace
240	Bunches	White barleycorn
87	Pounds	Large white ornament
290	Pounds	Small white ornament
150	Bunches	Light blue cut glass
130	Bunches	Dark blue cut glass
100	Bunches	Opaque light blue cut glass
60	Bunches	Green cut glass
2	Bunches	Fine purple cut glass
30	Pounds	Common round black
48	Pounds	Common round dark blue
350	Pounds	Common round light blue
200	Pounds	Common round clear green
316	Pounds	Common round white
69	Bunches	Sample "G"
19	Bunches	Sample "H"
35	Bunches	Sample "I"
46	Bunches	Sample "K"
50	Bunches	Sample "L"
50	Bunches	Sample "M"
100	Bunches	Sample "N"
100	Pounds	Sample "O"
50	Pounds	Sample "P"
50	Bunches	Sample "Q"
27	Pounds	Sample "R"

Table 5.5: First contact among the Indians of Oregon and Washington (Swanton 1969; Suttles 1990a; Johnson 1992; Josephy 1994).

<u>Group</u>	<u>Location</u>	<u>Contact</u>	<u>By Whom</u>
Alsean	Oregon	1780s	Sea traders
Cascade	Oregon	1805	Lewis and Clark
Cathlamet	Oregon and Washington	1806	Lewis and Clark

Cathlapotle	Washington	1806	Lewis and Clark
Cayuse	Oregon	1800s	Hudson's Bay Company
Chastacosta	Oregon	1800s	Hudson's Bay Company
Chehalis	Washington	1780s	Sea traders
Chetco	Oregon	1800s	Hudson's Bay Company
Chilluckittequaw	Washington	1806	Lewis and Clark
Chimakum	Washington	1780s	Sea traders
Chinook	Washington	Pre-1800	Sea traders
Clackamas	Oregon	1806	Lewis and Clark
Clallam	Washington	1800s	Hudson's Bay Company
Clatskanie	Oregon	1775	Fur trappers
Clatsop	Oregon	1806	Lewis and Clark
Clowwewalla	Oregon	1805	Lewis and Clark
Columbia	Washington	1800s	Hudson's Bay Company
Colville	Washington	1825	Hudson's Bay Company
Coos	Oregon	1780s	Sea traders
Coquille	Oregon	1780s	Spanish or French
Cowlitz	Washington	1800s	Hudson's Bay Company
Dakubetede	Oregon	1780s	Spanish or French
Duwamish	Washington	1780s	Spanish or French
Flathead	Washington	1800s	Hudson's Bay Company
Gros Ventre	Washington	1800s	French
Hh	Washington	1780s	Spanish or French
Kalapuyan	Oregon	1780	Fur trappers
Klamath	Oregon	1800s	Hudson's Bay Company
Klikitat	Washington	1780s	Spanish or French
Kwaiailk	Washington	1800s	Fur trappers
Kwalhioqua	Washington	1775	Fur trappers
Lummi	Washington	1780s	Spanish or French
Methow	Washington	1780s	Spanish or French
Molala	Oregon	1800s	Hudson's Bay Company
Muckleshoot	Washington	1780s	Spanish or French
Nespelem	Washington	1780s	French
Nez Perce	Washington	1805	Lewis and Clark
	and Oregon		
Nisqually	Washington	1780s	Spanish or French
Nooksack	Washington	1900s	American
Nootka	Washington	1592	Sea traders
Okanagan	Washington	1790	Spanish (?)
Ozetta	Washington	1500s (?)	Sea traders
Queets	Washington	1805	Lewis and Clark
Quileute	Washington	1792	Sea traders
Quinault	Washington	1805	Lewis and Clark
Samish	Washington	1780s	Spanish or French
Sanpoil	Washington	1780s	French
Siletz	Oregon	1780s	Spanish or French
Skagit	Washington	1827	Hudson's Bay Company
Skillute	Washington	1806	Lewis and Clark
Snake	Washington	1700s	Hudson's Bay Company
	and Oregon		
Snohomish	Washington	1833	Hudson's Bay Company
Snoqualmie	Washington	1850s	Fur trappers
Spokane	Washington	1810	Hudson's Bay Company
Squaxon	Washington	1780s	Spanish or French
Suquamish	Washington	1780s	Spanish or French
Swinomish	Washington	1700s	Sea traders
Takelma	Oregon	1800	Fur trappers

Taltushtuntude	Oregon	1850s	Fur trappers
Tenino	Oregon	1800s	Hudson's Bay Company
Tillamook	Oregon	1805	Lewis and Clark
Tututni	Oregon	1792	George Vancouver
Twana	Washington	1780s	Spanish or French
Umatilla	Oregon	1780	Spanish
Umpqua	Oregon	1800s	Astorian fur trappers
Wallamatte	Washington	1805	Lewis and Clark
Wallawalla	Washington	1805	Lewis and Clark
Wappato	Oregon	1780s	Spanish or French
Wasco	Oregon	1800s	Hudson's Bay Company
Wenatchee	Washington	1805	Lewis and Clark
Wishram	Washington	1790s	Spanish
Yakima	Washington	1806	Lewis and Clark

Table 6.1: Native American bead color preferences (after Woodward 1965: 17; Dubin 1987; Bernfeld 1989: 52; Sprague 1985: 38).

<u>Color</u>	<u>Meaning</u>	<u>Color</u>	<u>Meaning</u>
White	Peace/Purity	Black	Death
Red	Blood/War	Green	Trees/Earth
Blue	Heaven/Sky/Purity	Brown	Trees/Earth
Yellow	Jaundice (cure)		

Table 7.1: San Buenaventura Mission glass beads (after Gibson 1976).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Small-Medium	963	TSL	Cobalt blue	
	Oblate	8	OP	Blue	
	Spheroid-Tubular		1367	TSL	Copper blue/green tint
			4	OP	Copper blue
			415	TSL	Green
			222	OP	White
			8	OP	White/4 blue stripes
			76	TSL	Clear
			94	OP/TSL	Red/Green
			32	TSL/OP	Red/White
			1	OP	Pink
			22	OP	Black
	Tubular-Barrel		10	TSL	Cobalt blue
			1	TSL	Copper blue
			1	TSL	Copper blue
			5	TSL	Copper blue/6 white stripes
			1	TSL	Blue-green/6 white stripes
	Oblate Spheroid		2	OP/TSL	Red/Green
			75	OP	Black blue-red-green luster
	Disk		12	TSL	Reddish brown
61			OP	Yellow	
93			OP	Bright yellow	

		7	OP	Yellow-orange
		6	OP	Orange
Wound	Oblate	44	TSL	Light cobalt blue
	Spheroid	5	OP	Cobalt blue
		3	OP	Cobalt blue/gold spots
		3	TSL	Copper blue
		2	OP	Copper blue
		1	OP	Light copper blue/copper spiral
		11	TSL	Light green
		12	TSL	Greenish blue
		3	OP	White
		5	TSL (semi)	White
		76	TSL	Clear
		8	TSL	Clear/slight green tint
		75	TSL	Ruby red
		2	TSL	Light red
		2	TSL	Red
		10	TSL	Ruby red/ribs
		1	OP	Salmon
		2	TSL	Purple
		2	OP	Bright purple
		6	OP	Black
		192	TSL	Amber
		19	TSL	Dark amber
		12	OP	Light yellow
	Disk	5	TSL	Cobalt blue
		1	OP	Light cobalt blue
		5	OP	Cobalt blue
		1	TSL	Clear
		12	TSL	Purple
	Oblate Spheroid	13	TSL	Cobalt blue
		3	OP	Copper blue
	Tubular-barrel	5	TSL	Cobalt blue
		11	TSL	Green
		2	TSL	Red
		1	OP	Black
		3	OP	Light yellow
	Tubular	1	OP	Cobalt blue/copper spirals
		1	TSL	Red
	Barrel	1	OP	Cobalt blue/ribs
		2	OP	Copper blue
	Oblate Spheroid & Bi-pointed	1	OP	Cobalt blue
	Ring	1	TSL	Cobalt blue
	Spheroid	7	OP	Light copper blue

		1	OP	Light copper blue/yellow & gold swirling
		1	TSL	Green/white leaf design
		10	TSL (semi)	White
		21	TSL	Red
		1	TSL	Ruby red
	Tear drop	1	OP	Dark green
	Oblate Ovoid	2	TSL (semi)	Dark green
		1	TSL	Clear/4 dots
		1	OP	Bright red
	Ovoid	1	TSL	Clear
		3	TSL	Red
		1	OP	Dark purple
	Oblate Spheroid-disk	3	TSL (semi)	Dark purple
	Oblate Spheroid-ovoid	1	OP	Black/white swirls
Pressed	Oblate Spheroid (4-sided)	1	TSL	Cobalt blue
		2	OP	Cobalt light blue/ridge
		1	TSL	Copper blue
		1	OP	Copper
				blue/ridge
		4	OP	White/ridge
		1	OP	White
		1	OP	White/raised band
		1	TSL (semi)	Clear/pressed line
		1	TSL	Rose
		1	TSL	Pink
		1	OP	Bright red/ridge
		2	TSL	Clear
		1	OP	Cobalt blue & white spiral
		3	OP	Green (melon)
	1	OP	Brown/white spiral	
	1	OP	Yellow	
	Truncated	1	TSL	Clear
	Oblate Spheroid	10	TSL	Ruby red
	Bi-conical (4-sides)	18	TSL	Ruby red
	Oblate-ovoid	1	OP	Bright red/ depressions
	Peanut	1	OP	Bright red/ridge
	Oblate Spheroid	3	OP	Pink/raised band
	Oblate Spheroid Melon (8-10 sides)	1	OP	Yellow
	Bi-conical	1	OP	Yellow
Faceted	Tubular/snapped ends (6-facets)	16	TSL (semi)	Cobalt blue
		1	OP	Cobalt blue

		3	OP	Black
	Tubular (6-facets)	2	TSL	Cobalt blue
		1	OP	Cobalt blue
		1	OP	Bright red
	Tubular/irreg. facets (15-18 facets)	1	TSL	Cobalt blue
		2	TSL/TSL	Cobalt blue/Light blue
		2	TSL	Clear
		1	TSL	Milky clear
		24	TSL/TSL	Clear/Milky white
		1	OP	Black
	Tubular (18 facets)	18	TSL	Cobalt blue
		19	TSL/TSL	Cobalt blue/Light blue
		5	TSL	Clear
		1	TSL	Amber
	Oblate Spheroid (18-facets)	1	TSL	Copper blue
	Oblate Spherid Tubular Irregular (24-facets)	2	TSL	Green
	Tubular-Irregular (8-facets)	1	TSL	Red
	Oblate Spheroid (15-facets)	1	TSL	Ruby red
	Oblate Spheroid (20-30 facets)	4	TSL	Pink/ridge
	Oblate Spheroid disk Irregular (12-facets)	1	TSL	Purple
	Oblate Spheroid Irregular (8-10 facets)	1	TSL	Purple
	Oblate Spheroid Irregular (20-24 facets)	1	TSL	Purple
	Disk, Irregular (18-24 facets)	1	TSL	Orange
Blown	Oblate & Snapped ends	3	TSL	Clear
	Ridges/Hollow	2	TSL (semi)	Red

Table 7.2: San Buenaventura Mission glass bead color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Copper blue with green tint	1371	31.9
Blue	1125	26.1
Green	445	10.3
White	246	5.7
Amber	212	4.9
Yellow	172	4.1
Clear	169	3.9
Red	155	3.6
Red/Green (Cornaline d'Aleppo)	96	2.2
Black with blue-green-red luster	75	1.7
Brown	33	0.7

Black	33	0.7
Red/White (Cornaline d'Aleppo)	32	0.7
Clear/Milky white	24	0.5
Purple	23	0.5
Copper blue	22	0.5
Greenish blue	12	0.3
Pink	9	0.2
Clear with green tint	8	0.2
White with 4 blue stripes	8	0.2
Orange	7	0.2
Yellow-orange	7	0.2
Copper blue with 6 white stripes	5	0.1
Blue with gold spots	3	<0.1
Salmon	1	<0.1
Milky clear	1	<0.1
Blue-green with 6 white stripes	1	<0.1
Copper blue with copper spiral	1	<0.1
Blue with copper spiral	1	<0.1
Copper blue with yellow-gold swirling	1	<0.1
Clear with dots	1	<0.1
Black with white swirls	1	<0.1
Blue with white spiral	1	<0.1
Brown with white spiral	1	<0.1

Table 7.3: Deer Springs color schemes from various units.

<u>Unit</u>	<u>Quantity</u>	<u>Color</u>	<u>Misc.</u>
South 5/East 6	1	Green	
	3	Aquamarine	
	1		Melted
South 8/East 4	1	Aquamarine	
South 8/East 6	1	White	
	1	Turquoise	
	1		Melted
South 9/East 6	1	White	
	1	Green	
	3	Turquoise blue	
	5	Aquamarine	
South 9/East 8	1	Black	
	2	Turquoise blue	
	2	Aquamarine	
South 9/East 10	1	Green	
	7	Aquamarine	
	10	Turquoise blue	
South 9/East 12	3	Turquoise blue	
	10	Aquamarine	
	1		Melted
South 10/East 10	1	White	
South 10/East 12	1	Turquoise blue	
	4	Aquamarine	
South 11/East 12	2	Turquoise blue	
	4	Aquamarine	
South 12/East 12	3	Turquoise blue	
South 12/East 14	1	Turquoise blue	
South 13/East 6	1	Aquamarine	

	1	White	
	1	Turquoise blue	
	2		Melted
	1	Turquoise blue-White-	Fused
		Turquoise blue-Brown-	Fused
		Turquoise blue	Fused
	1	Turquoise blue-White-	Fused
		Brown-Turquoise blue	Fused
South 13/East 8	1	White	
	1	Brownish-red/bronze coating	
South 13/East 10	1	White	
	2	Aquamarine	
South 13/East 12	3	Aquamarine	
South 13/East 14	1	Aquamarine	
South 13/East 18	1	Turquoise blue	
South 14/East 8	1	Brown-Aquamarine	Fused
	1	White	
South 15/East 2	1	Green	
South 16/East 14	2	Turquoise blue	
	1	Brown	
	1		Melted
South 17/East 6	1		Melted
South 17/East 8	1	Turquoise blue	
	1	Aquamarine	
South 17/East 14	1	Green	
South 9/West 10	1	Turquoise blue	
South 9/West 12	1	Brown	
South 14/West 0	2		Melted
South 14/West 2	2		Melted
South 18/West 4	1	Green	
South 22/West 2	1	Turquoise blue	
South 22/West 6	1	Red/Dark green	

Table 7.4: Deer Springs color scheme percentages.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
Aquamarine (blue)	45	38.8
Turquoise-blue	38	32.8
(Melted)	10	9.0
White	9	8.0
Green	6	5.1
Brown	5	4.5
Black	1	0.6
Red/Dark green (Cornaline d'Aleppo)	1	0.6
Brownish-red/Bronze coating	1	0.6

Table 7.5: PC-3 color schemes for various units.

<u>Unit</u>	<u>Quantity</u>	<u>Color</u>
South 19/West 8	1	Blue
South 24/West 0	1	Red
South 30/West 0	1	Blue
South 30/West 4	1	Cream-white

	1	Turquoise blue
	4	Blue
South 30/West 6	1	Blue
South 31/West 4	1	Blue
	3	Turquoise blue
South 31/West 6	1	Green
	1	White
	1	Yellow
	2	Brownish-red
	3	Aquamarine
	11	Blue
	17	Turquoise blue
South 32/West 6	1	White
	1	Brown
	1	Turquoise blue
	9	Blue
South 25/East 0	1	Blue

Table 7.6: PC-3 color scheme percentages.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
Blue	29	46.0
Turquoise blue	22	35.0
Aquamarine (Blue)	3	5.0
White	2	3.0
Brownish-red	2	3.0
Red	1	1.6
Cream-white	1	1.6
Green	1	1.6
Yellow	1	1.6
Brown	1	1.6

Table 7.7: Joshua Tree cremation glass beads.

<u>Burial</u>	<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaph.</u>	<u>Color</u>
3	Drawn	Simple-	1	TSL	Blue
		Cylindrical-Tumbled	1	TSL	Medium blue
8	Drawn	Simple-	8	TSL	Aqua blue
		Cylindrical-Tumbled	37	TSL	Medium blue
			1	TSL	Cobalt blue
			1	OP	Light blue
			1	OP	Black
			1	TSL	Clear
			1	OP	White
			1	OP	Red
			1	OP/TSP	Red/Clear
				Complex-Cylindrical-Tumbled	
	Wound	Compound-	3	TSL	Cobalt blue
		Oblate-Spheroid	1	TSL	Amber
10	Drawn	Simple-	137	TSL	Aqua blue

	Cylindrical- Tumbled	4 27 34 17 145 4	TSL OP OP TSL OP TSL	Medium blue Light blue Black Clear White Green
	Simple- Cylindrical	3	OP	Medium blue
	Complex- Hexagonal- Faceted	1	OP	Black
	Complex- Cylindrical- Tumbled	45 30	OP/TSP TSL	Red/Clear Red stripes/blue
Wound	Compound- Oblate- Spheroid- Compound- Barrel	21 1 3 34 1	TSL OP OP TSL OP	Cobalt blue Light blue Green Amber Black

Table 7.8: Joshua Tree cremation site color preferences.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	245	43.4
White	146	25.8
Red	47	8.3
Black	37	6.5
Amber	35	6.2
Red stripes on blue	30	5.3
Clear	18	3.2
Green	7	1.3

Table 7.9: Owens Valley bead color schemes and types.

<u>Type</u>	<u>Percentage</u>	<u>Colors Identified</u>
Undecorated/Polychrome/Hot-tumbled	34	White; Red/Black; Red/White; Red/Green Cyl.
Mostly Undecorated	33	Greens; Blues; Red;
Monochrome/Hot-tumbled/Round to Cylindrical		Light Gray; Lavender
Monochrome/Chopped ends/Faceted	24	Purple; Dark Blue; Green; Amber
Polychrome/Chopped ends/Undecorated/Cylindrical	9	Red/Pink
Complex/Faceted	1	Purple

Table 7.10: Fort Ross sites with glass beads.

<u>Site Trinomial</u>	<u>Qty.</u>	<u>Description</u>
CA-Son-670	15	None
CA-Son-1446H	3	None
CA-Son-1455	1	Drawn white bead
CA-Son-1880	1	Opaque white bead
CA-Son-1896	6	White
	1	Blue
	1	Red/Green

The "red/green" variety was probably a Cornaline d'Aleppo bead.

Table 7.11: Locations of Mission Santa Clara.

<u>Date</u>	<u>Location</u>
January 12, 1777	On the west bank of Mission Creek (originally the Guadalupe River).
November 11, 1779	At the current northeast corner of Martin Avenue at De La Cruz Blvd.
May 16, 1784 1818	At the corner of Campbell and Franklin Streets. First adobe structure, now within the grounds of the University of California at Santa Clara.
August 11, 1825	Present site of church placed within the mission grounds.

Table 7.12: Glass beads from the third Mission Santa Clara site.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Undecorated	1	TSP	Yellowish white	
	Single-layer	13	TSP	Green	
	Short/Hot-tumbled		1	TSP	Greenish blue
			3	TSP	Grayish purple
			1	TSP-TSL	Bluish green
			1	TSP-TSL	Blue
			1	TSP-TSL	Bluish purple
			1	TSL	White
			1	TSL	Red
			1	TSL	Brown
			1	TSL	Light yellow-orange
			1	TSL	Brownish-yellow
			10	TSL	Yellowish green
			6	TSL	Green
			6	TSL	Bluish green
		1	TSL	Greenish blue	
	Undecorated		30	OP	White
			1	OP	Black
			3	OP	Light brown
			2	OP	Light grayish-purple
		1	OP	Purple	
		1	OP	Light bluish-purple	
Double-layer		121	TSP-OP	White	
	17	OP/TSP	Red/Green		

Short/Hot-tumbled				
Wound	Undecorated	1	TSP-TSL	White
	Single-layer	3	TSL	White
	Spheroidal	1	TSP-TSL	Bluish purple
		1	OP	Red
Molded	Barrel-shaped	1	TSL	Blue

Table 7.13: Color preferences for the 232 beads from the third Santa Clara Mission site.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	156	67.2
Green	19	8.2
Red/Green (Cornaline d'Aleppo)	17	7.3
Yellowish green	10	4.3
Bluish green	7	3.0
Grayish purple	5	2.1
Brown	4	1.7
Bluish purple	3	1.3
Greenish blue	2	0.9
Blue	2	0.9
Red	2	0.9
Yellowish white	1	> 0.4
Light yellowish orange	1	> 0.4
Brownish yellow	1	> 0.4
Black	1	> 0.4
Purple	1	> 0.4

Table 7.14: Mission Santa Cruz bead types and color schemes.

<u>Type</u>	<u>Qty.</u>	<u>Percent</u>	<u>Color</u>	<u>Qty.</u>	<u>Pct.</u>
Monochrome Hot-tumbled Chopped ends	11	85	White/Clear/Silver	13	53.8
Polychrome Hot-tumbled	2	10	Bluish-green/Blue Purple	3	23.1
Monochrome Cylindrical Enamelled Chopped ends	1	5	Black Brownish-red	2 1	15.4 7.7

Table 7.15: Mission Santa Cruz, Mission Period beads.

<u>Style</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	4	TSL	Burgundy black
	7	OP	Black
	9	TSP	Clear
	1	TSP/TSL	Clear/White
	1	TSL	Blue
	12	TSL	Blue-green

	4	TSL	Green
	1	TSL	Dark green
	4	TSL	Purple-blue
	7	TSL-OP	Blue-purple
	26	OP	White
	2	TSL	Amber
	3	OP/TSL	Red/Green-yellow
Wound	1	OP	Green-blue
	1	TSL	Purple-blue
	1	TSP	Blue-purple
	2	TSL	Pink
	1	TSL	Glossy white

Table 7.16: Mission Santa Cruz glass bead color percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	28	32.2
Blue-green	13	14.9
Clear	9	10.3
Blue-purple	8	9.2
Black	7	8.0
Purple-blue	5	5.7
Green	5	5.7
Burgundy-black	4	4.6
Red/Green-yellow	3	3.4
Amber	2	2.4
Blue	1	1.9
Pink	1	1.9

Table 7.17: Mission Santa Cruz, Post-Mission era bead typology.

<u>Style</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	7	OP	Black
	4	TSP	Green
	7	TSL	Purple-black
	1	TSP/TSL	Clear/White
	4	TSL	Blue
	9	TSL	Blue-green
	1	TSP	Clear
	4	TSL	Green
	1	TSL	Dark green
	6	TSL	Purple -blue
	1	OP	Red
	1	TSL	Red-purple
	1	OP	White
	1	TSL	Amber
	1	OP/TSL	Red/Green-yellow
	2	TSL/OP	Red/White
	82	OP/OP	White/White
Wound	1	OP	Black
	2	TSP	Clear
	1	TSP	Green-yellow
	1	TSL	Purple

1	TSP	Blue-purple
1	TSL	Pink
1	TSL	Dark purple-red
2	OP	Glossy white
5	TSP	Amber
3	TSP	Dark amber
2	TSL	Red
1	OP	Gold

Table 7.18: Mission Santa Cruz, Post-Mission Period color schemes.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	84	54.2
Blue-green	9	5.8
Green	9	5.8
Amber	9	5.8
Black	8	5.2
Burgundy-black	7	4.5
Purple-blue	6	3.9
Blue	4	2.6
Red	3	1.9
Clear	3	1.9
Yellow	3	1.9
Red/White (Cornaline d'Aleppo)	2	1.3
Red-purple	1	> 0.6
Green-yellow	1	> 0.6
Red/Green-yellow	1	> 0.6
Purple	1	> 0.6
Blue-purple	1	> 0.6
Pink	1	> 0.6
Purple-red	1	> 0.6
Gold	1	> 0.6

Table 7.19: Bead comparisons between Mission Period and Post-Mission Period.

<u>Color</u>	<u>MISSION</u>		<u>POST-MISSION</u>		<u>TOTAL</u>	
	<u>Qty.</u>	<u>%</u>	<u>Qty.</u>	<u>%</u>	<u>Qty.</u>	<u>%</u>
White	28	32.2	84	54.2	112	46.3
Blue-green	13	14.9	9	5.8	22	9.1
Black	7	8.0	8	2.2	15	6.7
Green	5	5.7	9	5.8	14	6.0
Clear	9	10.3	3	1.9	12	5.0
Purple-blue	5	5.7	6	3.9	11	4.5
Amber	2	2.3	9	5.8	11	4.5
Burgundy-black	4	4.6	7	4.5	11	4.5
Blue-purple	8	9.2	1	> 0.6	9	3.7
Blue	1	1.6	4	2.6	5	2.1
Red/Green-yellow	3	3.4	1	> 0.6	4	1.6
Red	---	-----	3	1.9	3	1.2
Yellow	---	-----	3	1.9	3	1.2
Pink	1	1.6	1	> 0.6	2	1.0
Red/White (Cornaline d'Aleppo)	---	-----	2	1.3	2	1.0
Red-purple	---	-----	1	> 0.6	1	> 0.3

Green-yellow	---	-----	1	> 0.6	1	> 0.3
Purple	---	-----	1	> 0.6	1	> 0.3
Purple-red	---	-----	1	> 0.6	1	> 0.3
Gold	---	-----	1	> 0.6	1	> 0.3

Table 7.20: Mission San Jose glass beads from the "East Sump" (after Dietz 1983: 119).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Reheated/Compound/ Monochrome	17	OP-TSL/OP	White-milky white/ White
	Reheated/Compound / Polychrome	4 1	OP/TSP OP/OP	Dark red/Apple green Dark red/white
Wound	Monochrome	1	TSL	Lapis lazuli
Molded	Monochrome	1	TSP	Strawberry

Table 7.21: Mission San Jose beads from the "Chapel Floor Overburden" (after Dietz 1983: 140, 162-163).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Reheated/Compound/ Monochrome	244	TSL-OP/OP	White-milky white/White
	Reheated/Compound/ Polychrome	55 1	OP/TSP OP/OP	Dark red/Apple green Dark red/White
	Reheated/Monochrome	8 1 1 1	TSL TSL TSP TSL	Greyish-magenta Deep blue Clear Blue
	Twisted/Reheated/ Compound/Polychrome	1	OP	White/3 groups of 3 deep blue lines
	Marvered/Monochrome Snapped ends	2	OP	Black
	Marvered/Snapped ends Ground facets/Polychrome Compound	1	OP/OP/OP	Princess blue/ White/Princess blue
Wound	Monochrome	1 1	TSP TSL	Clear Greyish-magenta

Table 7.22: Mission San Jose beads from the "Builder's Trench" (after Dietz 1983: 187).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Reheated	176	OP-TSL/OP	White-milky white/

Compound			White
Reheated Compound	29	OP/TSP-TSL	Dark red/Apple green
Polychrome	1	OP/OP	Dark red/ White
Reheated Monochrome	5	TSL	Greyish-magenta

Table 7.23: Mission San Jose beads from the "Chapel Steps Overburden" (after Dietz 1983:196).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Monochrome	1	TSL	Grayish green
	Monochrome Marvered & Ground facets-Snapped ends	1	TSP	Grayish blue
Wound	Monochrome	2	TSL	Lapis lazuli

Table 7.24: Mission San Jose beads from the "North Side Overburden" (after Dietz 1983: 197).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Reheated Compound	15	OP-TSL/OP	White-milky white/ White
Wound	Compound (Not Stated)	1 1	OP/OP TSP	Ruby/White Dark red

Table 7.25: Compilation of Mission San Jose bead assemblages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	452	79.4
Red/Apple green	88	15.5
Grayish magenta	14	2.5
Blue	5	0.8
Red/White	4	0.7
Red	2	0.3
Clear	2	0.3
Black	2	0.3
Grayish green	1	<0.1
Grayish blue	1	<0.1
White with stripes	1	<0.1
Blue/White/Blue	1	<0.1

The red/apple green and red/white beads were probably Cornaline d'Aleppo types.

Table 7.26: Mission San Antonio color frequencies (after Meighan 1985).

<u>Type</u>	<u>Quantity</u>	<u>Color</u>	<u>Percentage</u>
Wire-Wound (154)	2	Black	1.2
	8	Brown	5.2
	10	Clear	6.5
	12	Blue	7.8
	21	Purple	13.6
	101	Yellow-brown	65.7
Seed (98)	1	Red/Green	1.0
	1	Yellow-orange	1.0
	8	Green	8.2
	11	Clear	11.2
	24	White	24.5
	53	Blue	55.1
Faceted (13)	1	Brown	7.7
	6	Blue	46.1
	7	Clear	46.2
Globular (19)	19	Yellow	100.0

Table 7.27: Mission San Antonio color scheme percentages.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
Yellow-Brown	101	35.6
Blue	71	25.0
Clear	28	9.9
White	24	8.5
Purple	21	7.4
Yellow	19	6.7
Brown	9	3.2
Green	8	2.8
Black	2	<1.0
Yellow-Orange	1	<1.0
Red/Green	1	<1.0

Table 7.28: Great Basin glass bead sites in California and Nevada.

<u>State</u>	<u>County</u>	<u>Site Number</u>	<u>Qty.</u>	<u>Author</u>	<u>Year</u>		
CA	Mono	11	27	Enfield & Enfield	1964		
		455	5	Davis	1964		
		2122	110	Arkush	1989		
		2191	2	Arkush	1990		
		2192	16	Arkush	1990		
		2194	1	Arkush	1990		
		2197	2	Arkush	1990		
		2198	42	Arkush	1990		
		Inyo		2	9	Riddell	1951
				30	18	Basgall &	1988

		182	8	McGuire	
		372	7	Harrington	1957
		1308	8	Arkush	1990
		1700	63	Wilke	1983
	Lassen	7	1	Bettinger	1989
				Riddell	1960
NW	Nye	4	62	Worman	1969
		94	432	Tuohy	1965
		205	27	Worman	1969
		301	1	Thomas	1983
	Washoe	1014	4	Tuohy & Clark	1979
		1056	30	Witthoft	1972
		1061	65	Witthoft	1972
		1080	4	Witthoft	1972
		1081	297	Witthoft	1972
		1082	1	Witthoft	1972
		1088	1	Witthoft	1972
		1099	1	Witthoft	1972
		1105	37	Witthoft	1972
		1106	3	Witthoft	1972
		1107	100	Witthoft	1972
		3017	1	Zeier & Elston	1986
	Douglas	207	31	Ruhstaller	1978
	Storey	2009	8	Hattori	1975
	Minerva	5	7	Arkush	1990
	Pershing	27	3	Tuohy	1970
	Churchill	13	1	Loud &	1929
				Harrington	
	Clark	176	1	Schroeder	1953
	Humboldt	29	1	Tuohy	1963

Table 7.29: Yucaipa Rancheria glass bead assemblage.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Marvered-Short Multi-sided Single-layer Ground end facets/Cut ends	1	TSP	Dark purplish blue
	Marvered-Short Multi-sided Ground end facets Multi-layer/Cut ends	2	TSP	Dark purple
	Undecorated/Short Single-layer Hot-tumbled	1 1 1	TSP TSL-TSP OP	Dark g reen White Light green
	Undecorated Double-layer/Long Hot-tumbled	2	TSP/OP	Red/White

Table 7.30: Yucaipa Rancheria color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Red/White (Cornaline d'Aleppo)	2	22.2
Dark purple	2	22.2
Dark purplish blue	2	22.2
Green	2	22.2
White	1	11.2

Table 7.31: CA-Cal-629/630 burial site where glass beads were found.

<u>Burial</u>	<u>Description</u>	<u>Quantity Recovered</u>
129	Adult female cremation	2
150	(none)	40
150c	Child cremation	3
172	Child and adolescent cremation	1
187	Adult and child cremation	3
190	2 cremations	1
214	1 cremation	4
233	Multiple cremations	1

Table 7.32: CA-Cal-629/630 burial complex bead typology.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Monochrome Snapped/cut ends Undecorated Cylindrical/Long	1	OP	White
	Monochrome Undecorated	40	OP	White- brownish yellow
	Single-layer/Short Hot-tumbled	2	TSL	Green
	Polychrome/Complex Snapped/cut ends Multi-sided/Faceted Cylindrical/Long	1	TSP/TSL	Blue-purple Light bluish purple
	Polychrome Hot-tumbled	10	OP/TSP	Brownish red/Light green
	Undecorated/Short Double-layered	1	TSP/OP	Clear/White

Table 7.33: CA-Cal-629/630 color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White-brownish yellow	40	73.0
Brownish red/Light green	10	18.0
Green	2	4.0

White	1	> 1.6
Bluish purple	1	> 1.6
Clear/White	1	> 1.6

Table 7.34: Old Sacramento glass beads.

<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Simple/Annular/Simple	1	TSL	Amber
Truncated/Bi-cone/Simple/ Tumbled	1	OP	Butterscotch
Multi-faceted	1	TSL	Clear
Oblate/Spheroid	1	OP	Black
Multi-faceted/Cube/Glossy/ Simple	1	OP	Black
Multi-faceted/Truncated cone/ Simple	1	OP	Black
Molded/Multi-faceted/Oblate/ Simple/Spheroid	8	TSL	Clear

Table 7.35: Color scheme percentages for Old Sacramento.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Clear	9	64.3
Black	3	21.4
Amber	2	14.3

Table 7.36: Death Valley Salt Pan bead descriptions.

<u>Type</u>	<u>Diaphaneity</u>	<u>Color</u>
Spherical	OP	White/Light blue
	OP/OP	Red/White or Yellow (Cornaline d'Aleppo)
Hexagonal	TSP	Dark blue
Elongate		

Table 7.37: Hidden Valley Reservoir glass beads.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Small-Oblate-Spheroid	46	OP/OP	White/White
	Medium-Oblate-	1	TSL	Clear
	Spheroid	1	TSL/TSL	Red/Green
	Small-Medium-Oblate-	17	OP/OP	Red/White
Wound	Small-Oblate-Spheroid	1	OP	Cobalt blue
	Small-Medium-Oblate-	2	TSL	Red
	Spheroid			

	Medium-Oblate-Spheroid	7	TSL	Amber
Faceted	Small-Medium-Tubular	4	TSL	Cobalt blue
	Medium-Oblate-Spheroid	1	TSL	Red
	Medium-Tubular	2	TSL	Clear

The red/green and red/white beads are probably the Cornaline d'Aleppo types.

Table 7.38: Hidden Valley Reservoir color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	46	56.1
Red/White	17	21.0
Amber	7	8.5
Blue	5	6.1
Red	3	4.0
Clear	3	4.0
Red/Green	1	0.3

Table 7.39: Cottonwood Creek site beads.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	4	44.4
White	2	22.2
Red	1	> 11.1
Brown	1	> 11.1
Red/Green	1	> 11.1

Table 7.40: China Diggings glass bead analysis.

<u>Color</u>	<u>Qty.</u>	<u>Diaphaneity</u>
Blue green	2	TSL
Dark blue	3	OP
White	22	OP
Orange with wavy lines	1	OP
Light blue/White	1	TSL/OP
Blue	2	OP
Green	2	TSP
Gray/Blue	1	OP/OP
Blue	3	TSL
Clear/White	1	TSP/OP
Light blue	2	OP
Green	2	TSL
Dark blue	4	TSL
Orange	1	OP
Light blue	2	TSP
Yellow with horizontal lines	1	TSL
Gray black	1	OP
Red	1	OP
Yellow	1	OP

Amber	1	TSP
Red/Brown	1	OP/OP
Red/Black	3	OP/OP
Red/White	3	OP/OP
Pink-red/White	1	OP/OP
Amber	1	TSL
Iridescent amber	1	TSP
Brown	1	OP
White & Brown	1	OP
Green iridescent with a gold band	1	TSP
Light yellow	1	TSP
White/Black	2	OP/OP
Blue green	2	OP
Mottled black & silver	1	OP
Brick red/Brown	1	OP/OP
Gray brown	1	OP
Black	2	OP
Light red	1	TSL
Lavender	1	OP
Red/Green	1	OP/OP
White/Clear	3	TSP/TSP
Yellow	1	TSL
Blue	1	TSP
Black	1	TSL
Brown	2	TSL
Yellow	1	TSP
Light purple	1	TSL
Red/Yellow	1	OP/OP
Dark blue	1	TSP
Dark yellow	1	TSP
Brown/White	1	OP/OP
Green	1	OP
White	1	TSP
Purple	2	OP
Pink	1	OP
Purple/White	1	OP/OP
Off-White (possibly milky)	1	TSL
Light blue	1	TSL
Brick red	1	OP
Purple	1	TSP
Amber	1	TSP
Red/Black	1	OP/OP
Light green	1	TSP
Gold	1	TSP
Light blue/White	1	OP/Op
Dark red	1	TSL
Brick red/White	1	Op/Op
Pink/Yellow	1	OP/OP
Dark blue/Iridescent white	1	TSL/OP
Blue iridescent	1	OP
Red	1	TSP
White/Clear	1	TSL/TSL

The beads with the color schemes red/white; red/green; and red/yellow are most likely Cornaline d'Aleppo types, while the pink-red/white and the pink/yellow beads are possible Cornaline d'Aleppo, if the color has faded.

Table 7.41: Color percentages seen at the China Diggings site.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	29	24.8
Blue	20	17.1
Green	6	5.1
Red	5	4.3
Yellow	5	4.3
Purple	4	3.4
Amber	4	3.4
Blue green	4	3.4
Red/Black	4	3.4
Red/White	4	3.4
Black	3	2.6
Brown	3	2.6
Blue/White	3	2.6
Red/Brown	2	1.7
White/Black	2	1.7
Orange	1	0.9
Pink	1	0.9
Lavender	1	0.9
Orange with wavy lines	1	0.9
Gray/Blue	1	0.9
Yellow with horizontal lines	1	0.9
Gray/Black	1	0.9
White & Brown	1	0.9
Green with gold band	1	0.9
Mottled black & silver	1	0.9
Gray brown	1	0.9
Brown/White	1	0.9
Purple/White	1	0.9
Gold	1	0.9
Pink-red/White	1	0.9
Red/Green	1	0.9
Red/Yellow	1	0.9
Pink/Yellow	1	0.9

Table 7.42: California compilation of glass bead preferences.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	1705	25.5
Copper blue with green tint 1	371	20.5
White	1236	18.5
Green	526	7.9
Yellow	302	4.5
Amber	271	4.0
Clear	241	3.6
Red	228	3.4
Red/Green	221	3.3
Black	101	1.5
Black with Red-Blue-Green tint	75	1.1
Purple	73	1.1

Red/White	64	1.0
Brown	59	0.9
White-brownish yellow	40	0.6
Blue with Red stripes	30	0.4
Clear/Milky white	25	0.4
Grayish magenta	14	0.2
Pink	12	0.2
Yellow-green	11	0.2
(Melted)	10	0.1
Yellow orange	9	0.1
Orange	9	0.1
Clear with Green tint	8	0.1
White with 4 blue stripes	8	0.1
Copper blue with 6 White stripes	5	<0.1
Red/Black	4	<0.1
Blue with Gold spots	3	<0.1
Blue/White	3	<0.1
Red/Yellow	2	<0.1
Gold	2	<0.1
White/Black	2	<0.1
Red/Brown	2	<0.1
Gray blue	2	<0.1
Salmon	1	<0.1
Milky clear	1	<0.1
Red/Purple	1	<0.1
Blue-green with 6 White stripes	1	<0.1
Copper-blue with copper spiral	1	<0.1
Blue with copper spiral	1	<0.1
Clear with dots	1	<0.1
Copper-blue with yellow-gold swirling	1	<0.1
Black with White swirls	1	<0.1
Purple/White	1	<0.1
Brown/White	1	<0.1
Orange with wavy lines	1	<0.1
Blue with White spiral	1	<0.1
Brown with White spiral	1	<0.1
Brown-red with Bronze coating	1	<0.1
Purple with White stripes	1	<0.1
Gray-brown	1	<0.1
Mottled black & silver	1	<0.1
Green with a Gold band	1	<0.1
White & Brown	1	<0.1
Gray-green	1	<0.1
White with stripes	1	<0.1
Blue/White/Blue	1	<0.1

Table 7.43: Cape Creek Shell Midden glass bead artifacts.

<u>Type</u>	<u>Diaphaneity</u>	<u>Color</u>	<u>Number</u>
Seed	Opaque	Dark blue	2
	TSP	Dark blue	13
Cornaline d'Aleppo	TSP/Opaque	Red/White	5
		Dark blue	2
		Black (purple)	2
Russian	TSP	Green	1
		Dark blue	11
Wound	TSL		

Necklace	TSP	Black (purple)	1
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There was also one cast brass bead found (Sprague 1991: 27).

Table 7.44: Cape Creek Shell Midden color scheme totals and percentages.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
Blue	28	75.7
Red/White	5	13.5
Black	3	8.1
Green	1	2.7

Table 7.45: Yamhill River burial mound glass beads.

<u>Style</u>	<u>Color</u>	<u>Quantity.</u>
Blown	Green	77
	Brown	21
	Clear	33
	Violet	17
	Other	5
Machine-made	Clear	1094
	Violet	34
	Green	109
	Brown	245
	Blue	5
	Tinted	23
	Milky White	7

Table 7.46: Yamhill glass bead color scheme preferences.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Clear	1127	67.5
Brown	266	15.9
Green	186	11.1
Violet	51	3.1
Tinted	23	1.4
Milky White	7	0.4
Blue	5	0.3
Other	5	0.3

Table 7.47: Trojan III analyzed glass beads.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Small	1	OP/TSL	Red/Green
		1	TSP (semi)	Blue
	Medium	1	TSP	Blue
		1	TSP (semi)	Blue
Wound	Round	1	TSL	Bright blue
		1	OP	Black with white dots
	Oval	2	TSP	Dark blue

Table 7.48: Trojan III glass bead color schemes.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	77	97.4
Black with white dots	1	1.3
Red/Green (Cornaline d'Aleppo)	1	1.3

Table 7.49: Champoeg glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular-Double layered (6-7 facets)	1	OP	Dark blue/Light blue
	Tubular (6-7 facets)	1	TSL	White
	Tubular (7-facets)	2	OP	Black
	Tubular-Undecorated	1	OP	Light blue
	Hot-tumbled	2	OP	Black
		3	TSL	White
		3	OP	White
		1	OP	Dark blue
		6	OP	Blue
	Wound	Undecorated	1	OP
Spherical		1	TSL	Blue
Undecorated-Conical		1	OP	Blue

Table 7.50: Champoeg color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentages</u>
Blue	12	52.1
White	7	30.4
Black	4	17.5

Table 7.51: Deschutes glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular	7	OP	Blue
	Hot-tumbled	1	OP	White
Wound	Spherical	7	OP	Blue
		1	OP	White

Table 7.52: Deschutes glass bead color schemes.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	14	87.5
White	2	12.5

Table 7.53: Bezuksewas Village glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Wound	Simple-Ellipsoidal Monochrome	2	TSP	Dark blue	
		4	OP	Black	
			1	OP	White
			2	OP	Blue
		Simple-Oblate-Mono.	3	TSP	Light green
		Simple-Spherical-	1	TSP	Light green
		Monochrome	8	OP	Blue
			1	TSL	Blue
			1	TSL	White/gold swirls
			1	OP	Blue
			5	TSP	Blue
			9	OP	Black
			3	TSP	Red
		Compound-Oblate-Poly.	1	OP	Red/Yellow
		Simple-Mono.-Barrel	1	OP	White
			1	TSL	Blue
		Compound-Cylindrical-	1	OP	White/White
		Simple-Cylindrical-	1	OP	Blue
		Monochrome			
	Drawn	Monochrome-Chopped	3	OP	Black
ends-Hexagonal		1	OP	Blue	
Cylindrical		1	OP	Green	
Monochrome		1	TSP	Dark purple	
Hot-tumbled		210	OP	White	
		2	OP	Yellow	
		1	TSP	White	
		1	OP	Light purple	
		11	TSP	Green	
		122	TSP/OP	Red/White	
		18	OP	Black	
		1	OP	Blue-purple	
		292	OP	Blue	
		27	TSP	Red	
		1	OP	Blue	
		Monochrome-Faceted- Chopped ends			
		Polychrome-Hot tumbled	218	OP	White/White
Molded	Monochrome-Faceted	1	TSP	Light blue	
		2	OP	Dark blue	
	Monochrome-Hot tumbled	1	TSL	Yellow	

Table 7.54: Bezuksewas Village color percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	432	45.0
Blue	319	33.2
Red/Yellow (Cornaline d'Aleppo)	123	1.8
Black	34	3.5

Red	30	3.1
Green	16	1.7
Yellow	3	0.3
Purple	2	0.2
White with gold swirls	1	0.2

Table 7.55: Oregon archaeological site color scheme data for 2,662 beads.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Clear	1127	42.3
Blue	507	19.0
White	447	16.8
Brown	266	10.0
Red/Yellow	123	4.6
Violet	51	2.0
Black	41	1.5
Red	35	1.3
Tinted	23	0.9
Green	17	0.6
Milky White	7	0.3
Red/White	5	0.2
(Other)	5	0.2
Yellow	3	0.1
Purple	2	<0.1
Red/Green	1	<0.1
Black with White dots	1	<0.1
White with Gold swirls	1	<0.1

Table 7.56: Ice House Lake glass beads.

<u>Type</u>	<u>Diaphaneity</u>	<u>Color</u>	<u>No.</u>
Wound	OP	White	1
		Blue	2
		Robin's egg blue	1
	TSL	Red	1
		Purple	1
	TSP	Dark blue	1
Seed	OP	Light blue	1
		White	14
		Robin's egg blue	3
		Blue	1
	TSP	Light blue	1
		Red	1
		Green	1
		Blue	1
		Robin's egg blue	2
	TSL	Light green	1
		Green	1
		White/White	1
		White/White	1
Russian	TSP	Light blue	1
	TSL	Blue	1
	TSP/TSP	Blue/White	1
		White/Blue	1

Cornaline	OP/TSP	Red/Light green	1
d'Aleppo	OP/OP/TSP	White stripes/Red/Light green	1
Pony	OP	Robin's egg blue	1
		White	1
Cane	TSL	Red	1
Melon	OP	Yellow-tan	1

Table 7.57: Ice House Lake bead color schemes.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
White	16	34.8
Robin's Egg Blue	7	15.2
(All Blue varieties)	(17)	(38.0)
Blue	5	10.9
Red	3	6.5
Light Blue	3	6.5
Green	2	4.3
Purple	1	> 2.4
Dark Blue	1	> 2.4
Light Green	1	> 2.4
White/White	1	> 2.4
White/Blue	1	> 2.4
Blue/White	1	> 2.4
Red/Light Green	1	> 2.4
Yellowish-Tan	1	> 2.4
White stripes/Red/Light green	1	> 2.4

Table 7.58: Additional Ice House Lake glass artifacts.

<u>Color</u>	<u>Number</u>	<u>Percent.</u>
Moss Green	63	39.6
Light Blue	24	15.1
Amber Green	24	15.1
Clear	19	11.9
Bright Green	14	8.8
Blue Green	5	3.1
Light Amber	3	1.9
Clear Green	2	1.3
Light Green	2	1.3
Brown	2	1.3
Light Cobalt	1	0.6

Table 7.59: Asotin Creek Burial Site #10 bead descriptions.

<u>Quantity</u>	<u>Description</u>
5,536	Small Cornaline d'Aleppo (Red/White)
51	Medium-small Cornaline d'Aleppo
250	Medium-large Cornaline d'Aleppo
18	Medium and very wide Cornaline d'Aleppo
3,888	Large white seed

5,870	Coarse white seed
1	White paste
15	White paste round
14	Translucent deep blue round
8	Opaque light blue
16	Translucent deep blue
5	Angular blue paste with dots
17	Translucent deep blue coarse seed
1,882	Opaque black coarse seed
6,347	Translucent light green small seed
1,077	Opaque yellow large seed
10,743	Opaque pink small seed
1	Pink spiral on white paste
116	Pink on white spiral on blue paste
1	Translucent red round on white interior

Table 7.60: Asotin Creek Burial Site #17 bead descriptions.

<u>Quantity</u>	<u>Description</u>
3	Very small Cornaline d'Aleppo
42	Medium-small Cornaline d'Aleppo
14	Small white seed
9	Large white seed
4	Opaque light blue large seed
13	Opaque light blue small seed
8	Opaque dusty blue small seed
43	Opaque black coarse seed
1	Opaque yellow large seed
14	Opaque tan small seed
98	Opaque pink small seed
1	Translucent dark green small seed
3	Pink melon
1	Translucent red round over white interior

Table 7.61: Asotin Creek burial site color schemes.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
White	11846	29.8
Pink	10844	27.3
Cornaline d'Aleppo	7260	18.3
Light Green	6597	16.6
Black	1925	4.8
Yellow	1078	2.7
Pink on White Spiral/Blue	116	<1.0
Deep Blue	47	<1.0
Light Blue	29	<1.0
Tan	14	<1.0
Dusty Blue	8	<1.0
Blue with Dots	5	<1.0
Red/White	2	<1.0
Dark Green	1	<1.0
Pink Spiral on White	1	<1.0

Table 7.62: Fort Vancouver's known suppliers (after Ross 1976a: 31).

<u>Company</u>	<u>Location</u>	<u>Dates</u>	<u>Items</u>
John Towry Burgon & Son	London	1823-1833 1844-1845	Hardware Gunflints
Albert Pelly & Company	London	1852-1854	Goods
Jonas Phillips & Sons	London	1843-1850	Beads
Lawrence Phillips Company	London	1843-1850	Beads
Octavius Phillips Company	London	1843-1850	Producer
J. P. Stugis & Company	China	1828	Beads

Table 7.63: Fort Vancouver glass bead types for orders received between 1824 and 1854.

<u>Type</u>	<u>Merchandise</u>	<u>Color Schemes</u>
Bunche	Barley Corn Cut Glass	White and colors Crystal, white, amber, yellow, green, green-blue, opaque light blue, blue, opaque blue, lapis blue, lapis, purple, & fine purple
	Garnet	Brown
Pound	Round Necklace Common Round	Aquamarine White, black, clear green, light blue, blue, & white enamel
Yard	Unknown	Transparent green

Table 7.64: Fort Vancouver glass beads from a single 1844 shipment (after Ross 1976a: 31-32).

<u>Bundles</u>	<u>Pounds</u>	<u>Type</u>	<u>Color Scheme</u>
30		Necklace	Aquamarine
240		Barley Corn	White
	87	Large Enamel	White
	290	Small Enamel	White
150		Cut Glass	Light blue
152		Cut Glass	Bright blue
	30	Common Round	Blue
	48	Common Round	Dark blue
	350	Common Round	Light blue
	200	Common Round	Clear green
	316	Common Round	White
	27	Pipe	Blue
	150	Samples	Unknown
409		Samples	Unknown

Table 7.65: Fort Vancouver bead assemblages per location.

<u>Area</u>	<u>Quantity</u>	<u>Percent</u>	<u>Years</u>	<u>Use</u>
Fur Store	50,671	48.40	1829-44	Trade store & hospital
			1841-44	Trade store

Sales Shop	22,675	21.70	1849-53	Trade store
Mission	15,235	14.60	1829-60	Sales shop
			1829-44	Mission store
			1843-53	Hospital
Bachelor's Quarters	5,686	5.40	1849-60	Fur shop
			1841-60	House and 2 privies
Chief Factor's House	610	0.05	1837-60	Residence

Table 7.66: Fort Vancouver bead assemblages - "drawn" type.

<u>Type</u>	<u>Quantity</u>	<u>Description</u>
Monochrome/chopped ends	(276)	
	33	Undecorated, cylindrical
	243	Complex, multi-sided, cylindrical with ground facets
	241	Two-rows of facets: Russian, Bristol Hudson's Bay, chief, ambassador, cornerless hexagonal, septagonal, octagonal, short bugle, multi-faceted, & cut
	2	Four-rows of facets
Polychrome/chopped ends	(230)	
	4	Undecorated/cylindrical
	225	Complex, multi-sided, cylindrical with ground facets
	225	Two-rows of facets
	1	Complex "chevron" with complex straight stripes & ground facets. Apparently this bead was a "hybrid-cane rosetta" (Ross 1976b:40).
Monochrome/hot-tumbled	(72,959)	
	72,410	Undecorated/cylindrical
	81	Cylindrical/simple straight stripes
	468	Cylindrical
Polychrome/hot-tumbled	(28,670)	
	8	Undecorated/cylindrical

Table 7.67: Fort Vancouver bead assemblages - "wound" type.

<u>Type</u>	<u>Quantity</u>	<u>Description</u>
Monochrome/simple	(2,359)	
	25	Undecorated/cylindrical
	1	Undecorated/cylindrical & shaped
	2,244	Undecorated/spherical
	1	Conjoined/undecorated & spherical
	29	Undecorated/barrel-shaped

	2	Conjoined/undecorated & barrel-shaped
	39	Undecorated/ellipsoidal
	1	Undecorated/ellipsoidal & conjoined
	11	Undecorated/doughnut-shaped
	2	Undecorated/doughnut-shaped & conjoined
	2	Undecorated/conical-shaped
	1	Quadrilateral/bi-pyramidal
	2	Spherical/ground facets
Polychrome/simple mono/polychrome	(8)	Monochrome body/inlaid decorations
	1	Fritted/spherical
	3	Barrel-shaped/combed loops
	2	Ellipsoidal/combed loops
	1	Barrel-shaped/simple stripes
	1	Ellipsoidal/complex stripes
Polychrome/Compound	(2)	Manufactured by compound winding or wrapping one color onto a wound core of another color
	2	Undecorated/barrel-shaped
Monochrome/simple	(2)	Manufactured by winding and molded glass on a mandrel and then using an open mold, the decoration was pressed into the surface while the bead was turned. Another way this bead may have been designed was to use a pinching tool with molded faces, similar to a bullet mold, and the decoration was impressed while the bead was stationary.
	2	Ringed/truncated/bi-conical-shaped

Table 7.68: Pacific Northwest cultural horizon bead types for 1829 to 1860.

<u>Class</u>	<u>Type</u>	<u>Description</u>	<u>Color Scheme</u>
Drawn	Monochrome/Chopped ends	Undecorated/cylindrical	Yellow
		Complex/multi-sided/cylindrical/ground facets in two rows	Dark purple and black
	Polychrome/Chopped	Complex/multi-sided/ends	Colorless, light blue,
		Cylindrical/ground facets in 2 rows	purple & dark purple
	Monochrome/hot-tumbled	Undecorated/cylindrical	Colorless, white, dark red, black, brownish-red, yellowish-green, yellow, green,

			bluish-green, blue, bluish-purple, light purplish blue, dark purple, & pink
		Cylindrical/simple, straight stripes	White/4 purple stripes
		Cylindrical/ground facets	Red & dark purplish-red
	Polychrome/hot-tumbled Undecorated/cylindrical		Red/White, red, light pink, pink, white/white, & brownish-red/green
Wound	Monochrome/simple	Undecorated/spherical	Blue
		Undecorated/ellipsoidal	White
Mold-pressed	Monochrome/simple	Spherical/bi-conical/ punched hole/ground facets	Light green-blue/purplish-blue

Table 7.69: Hudson Bay Company's Kanaka Village site glass beads.

<u>Type</u>	<u>Variety</u>	<u>Diaphaneity</u>	<u>Color</u>	<u>#</u>
<u>DRAWN</u> Monochrome Chopped ends	Cylindrical; Undecorated	Opaque	Dark purplish blue	1
Monochrome Chopped ends	Two rows of facets/decorated	TSP Opaque	Purple Pinkish purple Dark blue Blue	1 7 1 1
		TSL	Light aqua	1
Polychrome Chopped ends	Two rows of facets/decorated	TSL Opaque	Light blue Milky	1 2
Monochrome Hot-tumbled	Cylindrical; Undecorated	TSL	Greenish blue Blue Dark purple	1 1 2
Polychrome Hot-tumbled	Cylindrical; Undecorated	TSP/Opaque TSL/Opaque Opaque/ Opaque	Purplish blue/ Light blue Blue/Green Purple/Green Black/Dark grey Grayish blue/Blue Purplish blue/ Light blue	1 1 1 1 5 1

			Purplish blue/ Light blue	1
<u>WOUND</u>	Cylindrical	TSL	Amber	1
Monochrome	Undecorated		Purple	1
Simple		Opaque	Blue	3
			Turquoise	2
			White	1
			Black	1
	Barrel	TSP	Dark bluish-green	1
	Undecorated	TSL	White	1
	Conical	Opaque	Red	1
	Undecorated			
<u>Mold- Pressed</u>	Spherical, bi- conical, punched, perforation, Ground facets	TSP	Amber	1
			Purple	1
<u>Prosser- Molded</u>	Banded, barrel- shaped	Opaque	Light blue	2
			Black	1

Table 7.70: Kanaka Village color scheme percentages.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
Pinkish-Purple	7	15.2
Blue	5	10.9
(All Blue varieties)	(21)	(45.7)
Grayish Blue/Blue	5	10.9
Purple	3	6.5
Light Blue	3	6.5
Milky	2	4.3
Purplish-Blue/Light Blue	2	4.3
Amber	2	4.3
Turquoise blue	2	4.3
White	2	4.3
Black	2	4.3
Dark Purple	2	4.3
Dark Purplish-Blue	1	> 3.0
Dark Blue	1	> 3.0
Light Aqua	1	> 3.0
Greenish-Blue	1	> 3.0
Blue/Green	1	> 3.0
Purple/Green	1	> 3.0
Black/Dark Gray	1	> 3.0
Dark Bluish-Green	1	> 3.0
Red	1	> 3.0

Table 7.71: Hudson's Bay Company's Kanaka Village site's non-glass artifacts.

<u>Type</u>	<u>Variety</u>	<u>Diaphaneity</u>	<u>Color</u>	<u>Number</u>
Ground Stone	Steatite; Flat disk			1

Bone	Ellipsoidal		1
Wood	String-wound	Yellowish-brown	1
	Barrel-shaped		
Metal			2
Shell			UNKNOWN

Table 7.72: Kanaka Village glass beads from the 19th operation of 1977.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Multi-layered/Short/ Tiny/Cylindrical	1	OP	Light blue
	Oblate/Tiny	4	OP	Blue
	Short/Tiny/ Cylindrical	54	OP	White
		2	OP	Blue
		2	OP	Turquoise
		1	OP	Green
		3	TSL	Violet
	Short/Small/ Cylindrical	2	OP	Blue
		9	TSL	Turquoise
		3	OP	Turquoise
		1	TSL	Green
		1	TSL	Blue-green
		2	TSL	Red
		215	OP	White
		1	OP	Gray-brown
	Short/Large/ Cylindrical	5	OP	Blue
		15	OP	White
	Oblate/Medium	1	TSL	Green
	Short/Medium	10	TSL	Turquoise
		4	OP	Turquoise
		6	TSL	Green
		1	OP	Yellow
		2	OP	White
	Short/Small/ Cylindrical & Multi-layered	1	OP	Brick red
	Short/Medium/Cyl.	1	OP	Brick red
	Multi-layered/Cyl.	1	OP	White
Drawn	6-facets/Short/Small	1	TSL	Light aqua
	Cylindrical	1	TSP	Ground ends Clear
	6-facets/Small/ Cylindrical	2	TSL	Blue
		1	TSL	Purple
	6-facets/Cylindrical	1	TSL	Blue
	Multi-layered/Short/			

	Medium			
	7-facets/Short/Large Cylindrical	1	OP	Blue
	6-facets/Short/ Medium	6 3	OP TSP	Black Clear
	Cylindrical/Facets	1	TSL	Blue
	6-facets/Cylindrical	2	TSL	Aqua
	Multi-layered/Large/ Short	1 2	TSL TSL	Blue Purple
	6-facets/Cylindrical Short/Large	1	TSL	Blue
Wound	Spherical/Medium	13	TSL	Turquoise
		3	TSL	Blue
		1	OP	Light blue
		1	OP	Yellow
		1	TSL	White
		1	OP	White
		1	OP	Black
		1	Unknown	Turquoise
		2	OP	Turquoise
		4	OP	Light blue
	Oblate/Small	1	OP	Blue
	Barrel/Medium	1	TSL	Blue
	Spherical/Small	4	OP	Light blue
	Spherical/Large	3	OP	Light blue
	Oblate/Medium	1	TSL	Purple
		1	TSL	Amber
		2	OP	Blue
	Cylindrical/Medium	1	OP	White
	Spherical/Large	1	OP	Yellow
	Ellipsoidal/Medium	4	OP	White
		1	Unknown	(Burned)
Mandrel- Pressed	Facets/Spherical/ Large	1	OP	Black
Wound- Pressed	Facets/Spherical/ Small	1	TSL	Red

Table 7.73: Kanaka Village pre-1860 strata glass bead assemblage.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>		
Drawn	Plain/Single/Long	2	OP	Dark purple-blue		
	Hot-tumbled/Single Long	1	TSL	Blue		
	Hot-tumbled/Short Single-layer		7	TSP	Dark red	
			1	TSP	Red	
			7	TSP	Yellow green	
			1	TSP	Dark purple	
			11	TSL	White	
			18	TSL	Blue	
			1291	TSP-OP	White	
			8	OP	Black	
			3	OP	Yellow green	
			9	OP	Green	
			2	OP	Dark purple-green	
			2	OP	Blue purple	
			24	OP	Dark purple	
			4	OP	Pink	
	Hot-tumbled/Double Short		10	TSP/OP	Red/White	
			1	TSP/OP	Purple	
					blue/Light blue	
			1136	OP	White/White	
			1	OP	Black/Dark gray	
			5	OP	Gray blue/Blue	
	Plain/1-facet/Single		2	TSP	Amber	
2			TSP	Yellow green		
53			TSP	Dark purple		
2			OP	Black		
1			TSP	Clear		
Plain/Double				3	TSP/TSL	Clear/White
				23	TSP/TSL	Dark purple/Light purple
				24	OP	Dark purple/Light purple
Wound			Plain/Spherical Single-layer	56	TSP	Blue
				5	OP	Blue
	Plain/Barrel/Single	1	TSP	Light amber		
		1	TSP	Purple blue		
	Plain/Oblate/Single	4	OP	Black		
	Plain/Ellipsoidal	1	TSP	Dark red		

	Single-layer	1	TSP	Dark blue-green
		1	TSL	White
		4	OP	White
	Plain/Spherical Double-layer	1	TSL/OP	Red/White
Mandrel- Pressed	Faceted/Spherical Single-layer	1	TSP	Green
		1	TSP	Purple green
		1	TSP	Purple
		1	OP	Black
		2	OP	Light green-blue
		5	OP	Purple blue
Blown	Grooved/Long/Single Double Upset	1	TSL	Purple

Table 7.74: Morphological description of the Kanaka Village Strata 2 and 3 glass beads.

<u>Style</u>	<u>Quantity</u>
Drawn	911
Wound	8
Mandrel-Pressed	1

Table 7.75: Color schemes, of 3161 glass beads, from the Kanaka Village site.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	2737	86.6
Blue	171	5.4
Purple	142	4.5
Black	28	0.9
Green	21	0.7
Red	14	0.4
Yellow green	12	0.4
Red/White (Cornaline d'Aleppo)	11	0.3
Clear	8	0.2
Amber	4	0.1
Pink	4	0.1
Violet	3	> 0.1
Yellow	2	< 0.1
(Burned)	1	< 0.1

Table 7.76: Spokane House/Fort Spokane's historical sequence (after Combes 1964: 5).

<u>Year</u>	<u>Description</u>
Pre-1805	Native American occupation
1805	Lewis and Clark travel through area
1808-1809	David Thompson explored the area to set up a fur post
1810	Northwest Company builds Spokane House

1812	Pacific Fur Company builds Fort Spokane
1813	Pacific Fur Company abandons Fort Spokane and the Northwest Company abandons Spokane House, then moves into Fort Spokane
1826	All trapper leave area with the depletion of the beaver
1830s	First homesteaders arrive
1859	Washington admitted to the Union
Post-1859	Area settlement builds up as an agricultural base

Table 7.77: Fort Spokane burials (after Caywood 1954: 30-32).

<u>Burial</u>	<u>Description</u>	<u>Artifacts</u>	<u>Description</u>
1	None	Unknown	Unknown
2	None	Unknown	Unknown
3	Infant	Beaded bag Dentalia	Blue (3)
4	Adolescent	None	Blue (1)
5	Female in her twenties	None	None
6	Male in his forties	Copper bead Glass mirror Dentalia Bone tubes Boar tooth Mini bow Brass butt, rifle plate Stone pipe	Blue (1)

Table 7.78: Fort Nisqually Village glass bead analysis (after Stilson 1990:II: 9, 23).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Hot-tumbled	552	OP	White	
		85	OP	Lavender	
		22	OP	Turquoise blue	
		8	OP	Pink	
		5	TSP	Clear	
		2	TSL	Yellow	
		2	TSL	Blue green	
		2	OP	Dark blue	
		1	OP	Light blue	
		10	OP	Red/White	
		2	OP/TSP	Red/Green	
		42	TSP	Dark blue	
		2	TSP	Aqua blue	
		1	TSL	Blue	
		1	TSL	Light blue	
	2	TSP	Clear		
	1	TSP	Green		
	1	TSP	Amber		
	Bugles		2	OP	White
			5	TSL	Dark blue
Wound	Unknown	4	TSL/TSP	Blue	

		2	TSL	Jade green
		2	OP	Black
		2	TSL	Amber
		1	OP	White
Molded	Mandrel-Pressed	14	TSL/OP	Blue
		3	TSP	Red

Table 7.79: Fort Nisqually Village color schemes.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	555	71.5
Blue	96	12.4
Lavender	85	11.0
Red/White	10	1.3
Pink	8	1.0
Clear	7	1.0
Green	3	0.4
Amber	3	0.4
Red	3	0.4
Yellow	2	0.2
Black	2	0.2
Red/Green	2	0.2

Table 7.80: Fort Nisqually resources sent to Fort Vancouver between March 1, 1834 and January 20, 1835.

<u>Furs and Hides</u>	<u>Quantity</u>	<u>Food Items</u>	<u>Quantity</u>
Beaver (large)	1032	Venison	1000+ lbs.
Muskrats	700	Waterfowl	200+ lbs.
Beaver (small)	412	Salmon	100+ lbs.
Land otter	340	Bladders of oil	Unknown
Deer	100+	Berries	Unknown
Wood rats	100+	Roots/tubers	Unknown
Raccoon	100+		
Wolf	100+		
Mink	80		
Black bear (large)	33		
Black bear (small)	13		
Elk	2		
Sea otter	1		

Table 7.81: Fort Nisqually glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Faceted/6	10	TSL	Dark blue
		1	TSL	Purple brown
		1	TSL	Green blue
		1	TSL/OP	Clear/White
		1	TSL	Blue/White
	Seed/Hot-tumbled	1	OP	Blue
		1	OP	White
		1	OP	Red/White

Wound	Oblate	6	TSL	Dark blue
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Table 7.82: Fort Nisqually glass bead color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	17	72.0
(All Blue varieties)	(18)	(75.0)
White	1	4.0
Purple brown	1	4.0
Purple red	1	4.0
Green blue	1	4.0
Clear/White	1	4.0
Blue/White	1	4.0
Red/White (Cornaline d'Aleppo)	1	4.0

Table 7.83: Fort Rains glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>		
Drawn	Seed	156	OP	White		
		70	TSP	Blue		
		1	OP	Red		
		3	TSP	Dark blue		
		1	OP	Light pink		
		3	OP	Light pink/White		
		3	OP	Light pink-red with gold tint/White		
		1	OP	Dark blue		
		1	OP/TSP	Brick red/ Light green		
		3	OP	Mottled light pink-red with a gold tint/White		
		1	TSL	Red/White		
		1	OP	Blue		
		Wound	Spherical	6	TSP	Dark blue
				2	OP	Blue
2	OP			Light blue		
1	OP			White		
3	TSP			Blue		

Table 7.84: Fort Rains color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	157	61.0
Blue (1-Russian)	88	34.1
Pink/White	3	1.2
Pink-red with a gold tint/White	3	1.2
Mottled pink-red with a gold tint/White	3	1.2
Pink	1	> 0.3
Red	1	> 0.3

Red/White (Cornaline d'Aleppo)	1	> 0.3
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Table 7.85: Fort Colvile glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Unknown	2930	Unknown	White	
		1064	Unknown	Blue	
		706	TSL	Green	
		265	TSL	Blue	
		9	Unknown	Black	
		4	Unknown	Red	
		2	Unknown	Green	
		3	TSL	White	
		3	Unknown	Lilac	
		3	Unknown	Yellow	
		2	Unknown	Pink	
		1	TSL	Brown	
		Faceted	104	TSL	Blue
			2	TSL	Red
			1	TSL	White
	1		Unknown	Blue	
	1		TSL	Brown	
	Wound	Unknown	52	Unknown	Blue
			48	TSL	Blue
			2	Unknown	White
1			TSL	White	
Olive pit		2	Unknown	White	
Mandrel- Pressed	Cornaline	164	OP	Red/White	
	d'Aleppo	159	OP	Red/Brown	
	Unknown	1	TSL	Red	
		1	Unknown	Red	
		1	Unknown	Black	
Faience	Unknown	45	TSL	Green	

Table 7.86: Fort Colvile glass bead color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	2909	52.4
Blue	1534	27.7
Green	753	13.6
(Cornaline d'Aleppo)	(323)	(5.8)
Red/White	164	3.0
Red/Brown	159	2.8
Black	10	0.2
Red	8	0.1
Lilac	3	<0.1
Yellow	3	<0.1
Pink	2	<0.1
Brown	2	<0.1

Table 7.87: Fort Okanogan's historical artifacts.

<u>Type</u>	<u>Items</u>	<u>Type</u>	<u>Items</u>
Leather	Shoe/boot sole	Exchange	Fishhooks
	Scrap		Brooches
	Boot heel		Pins
	Shoe fragment		Rings
Sewing	Needles Awls Thimbles Scissors	Miscellaneous	Tacks
			Brass bead
			Rivets
			Wire
			Kettles
Buttons	Bone Brass Plated brass Iron Glass Shell Bell		Jew's harps
			Buckles
			Tinklers
			Ferrule
			Iron projectile points
		Drawer pull	
		Whetstones	
Miscellaneous	Paper Slate Bale seal	Candle snuffer	
		Pencil	

Table 7.88: Fort Okanogan glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Color</u>
Drawn	Tubular (Seed)	1547	Blue
		2	Clear
		235	White
		39	Red
		13	Green
	Spherical (Pony)	31	White
		445	Blue
		34	Red
		4	Clear
		2	Black
		1	Yellow
		Faceted	2
	5		Clear
	5		Red
	2		Blue
Cornaline d'Aleppo	2	2	Red/White
Wound	Unknown	3	Red
		12	Blue
		4	White
		1	Green
		1	Black

Table 7.89: Fort Okanogan color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	2007	84.0
White	272	11.4
Red	81	3.3
Green	14	0.6
Clear	11	0.5
Black	3	0.1
Red/White (Cornaline d'Aleppo)	2	0.1

Table 7.90: Lesher's Island/Kettle Falls' 1974 glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Unknown	21	OP	White
		1	OP	Blue
		27	TSL	Blue
		1	TSL	Light blue
		1	OP	Light blue
		3	TSL	Green
		2	OP	Red
		1	OP	Dark blue
		2	TSL	Blue
		1	TSL	White
Wound	(Canton)	20	TSL	Blue
		1	TSL	Dark blue
		10	OP	Blue
		1	OP	Black
Molded	Faceted	1	TSL	Green
		1	TSL	Amber

Table 7.91: Lesher's Island color preferences.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	64	68.8
White	22	23.6
Green	4	4.3
Red	2	2.2
Amber	1	1.1

Table 7.92: Ozette glass bead analysis.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Faceted	278	TSP	Blue
		93	TSP	Black
		3	TSP	Green
		3	TSP	Yellow
		3	TSP/OP	Light blue/White
		3	OP	Light blue/White

	13	TSP/OP	Blue/White
	1	OP	Blue/White
	120	TSP/OP	Black/White/Blue
	1	TSP/OP	Light blue/White/Blue/
		White	
	1	TSP/OP	Blue/White/Blue/White
	2	TSP/OP	Clear/White
	1	TSP/OP	Clear/Red
	1	OP	Green/White/Red/White
Circular	49	TSL	White
	4	TSP	Blue
	3	TSL	Blue green
	1	TSP	Red brown
	1	TSP	Brown
	125	TSP/TSL	Red/White
	1	TSL/TSP	Red/White
	22	TSL/OP	Red/White
	1	OP/TSL	Red/White
	1	TSL/TSP	Brown/White
	2	TSP/TSL	Orange/White
Round	4	TSP	Light blue
	3	TSL	Light blue
	761	TSP	Blue
	14	OP	Blue
	2	TSL	Blue
	1	TSP	Dark blue
	42	TSP	Blue green
	4	OP	Blue green
	13	TSL	Blue green
	8	TSP	Green
	1	OP	Green
	1	TSL	Green
	4	TSL	Yellow green
	2	TSP	Yellow
	1	TSL	Yellow
	1	OP	Gray green
	1	TSP	Purple
	2	TSP	Brown
	1	TSP	Light brown
	1	TSL	Pink
	72	TSP	Black
	4	OP	Black
	1	TSL	White
Oval	1	TSP	Blue
	8	TSP	Blue green
	2	OP	Blue green
	1	OP	Brown
Doughnut	1	TSP	Clear
	4	TSP	Yellow
	12	TSP	Blue
	1	TSP	Light blue
	1	TSP	Blue green
Wound Faceted	1	TSP	Clear

7 TSP

Yellow

Table 7.93: Ozette color scheme preferences.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	1104	66.3
(Total blue varieties)	(1246)	(75.0)
Black	169	10.2
Red/White (Cornaline d'Aleppo)	149	8.9
Blue/White/Blue	120	7.2
White	50	3.0
Blue/White	20	1.2
Yellow	17	1.0
Green	13	0.8
Brown	5	0.3
Yellow green	4	0.2
Orange/White	2	0.1
Clear	2	0.1
Clear/White	2	0.1
Blue/White/Blue/White	2	0.1
Red brown	1	<0.1
Brown/White	1	<0.1
Clear/Red	1	<0.1
Green/White/Red/White	1	<0.1
Gray green	1	<0.1
Purple	1	<0.1
Pink	1	<0.1

Table 7.94: The Nisqually-John Talus glass beads from burial #6 (an adult male).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular	187	TSL	Blue
		7	OP	White
	Circular	1384	TSL	Blue
		2	OP	Blue
		1	OP	Green
Wound	Circular	117	TSL	Blue
		169	OP	Blue

Table 7.95: Nisqually-John Talus burial #6 color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
Blue	1859	99.6
White	7	0.3
Green	1	0.1

Table 7.96: Alpaueyma burial #4 (adult female) glass bead typology (after Rodeffer & Rodeffer 1972: 53).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Tubular/Circular	1104	OP	White	
		1	TSL	White	
		40	OP	Red	
		2	TSL	Amber	
		8	TSL	Amber/White	
		7	TSL	Red	
		Tubular/Circular Multi-layered (Cornaline d'Aleppo)	314	OP	Red/White
		Tubular/Round	1	TSL	Blue
		Tubular/Oval	1	Op	Black/2 white stripes
		Tubular/Facets	3	TSL	Purple
			3	TSL	Blue
			1	TSL	Green
			1	TSL	Amber
			2	Unknown	Unknown
			1	TSL	Green
Wound	Oval	22	OP	White	
	Oval Multi-layered (Cornaline d'Aleppo)	16	OP	Red/White	
	Round	2	OP	Green	

Table 7.97: Alpaueyma burial #5 (child, age 4-6 years) glass bead typology (after Rodeffer & Rodeffer 1972: 54).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Tubular/Facets	1	TSL	Purple	
	Tubular/Circular	1080	OP	White	
		24	OP	Black	
		27	OP	Amber	
		12	OP	Green	
		1	OP	Blue	
		83	TSL	Blue	
		7	TSL	Purple	
		Tubular/Circular (Cornaline d'Aleppo)	1	OP	Red/White

Table 7.98: Alpaueyma burial #9 (adult female) glass bead typology (after Rodeffer & Rodeffer 1972: 57).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	3	OP	Black
		15	OP	Blue
	Tubular/Circular Multi-layered (Cornaline d'Aleppo)	4	OP	Red/White

Table 7.99: Alpaueyma burial #11 (adult male) glass bead typology (after Rodeffer & Rodeffer 1972: 58).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	1	TSL	Purple
	Tubular/Circular	1	OP	White
		1	TSL	Blue
	3	TSL	Green	

Table 7.100: Alpaueyma burial #13 (child) glass bead typology (after Rodeffer & Rodeffer 1972: 59).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	12	TSL	Blue
		1	OP	Green
		1	OP	White

Table 7.101: Alpaueyma burial #14 (adult male) glass bead typology (after Rodeffer & Rodeffer 1972: 60).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	687	OP	White

Table 7.102: Alpaueyma burial #16 (infant) glass bead typology (after Rodeffer & Rodeffer 1972: 61).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	9	TSL	Purple
	Tubular/Circular	18	OP	Black
		6	OP	Red
		6	TSL	Red
	Tubular/Torus Multi-layered (Cornaline d' Aleppo)	6	TSL	Red/White
Tubular/Circular Multi-layered (Cornaline d'Aleppo)	60	OP	Red/White	

Table 7.103: Alpaueyima burial #18 (sex unknown) glass bead typology (after Rodeffer & Rodeffer 1972: 66).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	145	OP	White
		1	OP	Black
		17	TSL	Blue

Table 7.104: Alpaueyima burial #21 (adult) glass bead typology (after Rodeffer & Rodeffer 1972: 69).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	2	TSL	Purple
		1	TSL	Green
	Tubular/Circular	345	OP	White
		71	OP	Black
		1	OP	Blue
		3	TSL	Black
		33	TSL	Blue

Table 7.105: Alpaueyima burial #39 (adult) glass bead typology (after Rodeffer & Rodeffer 1972: 73).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	2	OP	White
		1	OP	Green
		5	TSL	Blue

Table 7.106: Alpaueyima burial #43 (child) glass bead typology (after Rodeffer & Rodeffer 1972: 75).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	294	OP	White
		9	OP	Black
		1	TSL	Purple
		1	TSL	Blue
	Tubular/Facets	7	OP	Purple
		23	OP	Black
		1	OP	Amber
		3	TSL	Purple
		1	TSL	Red

Table 7.107: Alpaueyima burial #45 (adult) glass bead typology (after Rodeffer & Rodeffer 1972: 77).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	3182	OP	White
		3	OP	Black
		1	OP	Blue

11	TSL	Blue
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Table 7.108: Alpaweyma burial #47 (adult) glass bead typology (after Rodeffer & Rodeffer 1972: 79).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	5	TSL	Purple
		2	TSL	Green

Table 7.109: Alpaweyma burial #48 (male) glass bead typology (after Rodeffer & Rodeffer 1972: 79).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	16	TSL	Purple
		1	TSL	Amber
	Tubular/Round	12	OP	Purple
		1	OP	Red
Wound	Round	2	OP	Yellow
		1	OP	White/2 Purple spots

Table 7.110: Alpaweyma burial #52 (infant, aged 2-6 months) glass bead typology (after Rodeffer & Rodeffer 1972: 82).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Tubular/Facets	16	TSL	Purple	
		Tubular/Circular	965	OP	White
	250		TSL	Blue	
	3		OP	Green	
	Tubular/Circular	104	OP	29	Black
				Multi-layered (Cornaline d'Aleppo)	Red/White
Wound	Oval	3	OP	White	
	Faceted	5	TSL	Red	

Table 7.111: Alpaweyma burial #53 (infant) glass bead typology (after Rodeffer & Rodeffer 1972: 84-85).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	2049	OP	White
		732	OP	Black
		24	TSL	Purple
		40	TSL	Green
		1	OP	Yellow
		8	TSL	Blue
		1	OP	Green
		1	TSL	White

	Tubular/Circular Multi-layered (Cornaline d'Aleppo)	13	OP	Red/White
	Tubular/Multi-layer (Cornaline d'Aleppo)	3	TSL	Red/White
	Tubular	1	OP	Green/3 White & Red stripes & 3 Black dots/ White rims
		1	OP	White with Purple & Red alternating stripes
	Tubular/Facets	7	TSL	Red
		1	TSP	Amber
Wound	Oval	14	OP	White
		4	TSL	Red
		1	TSL	Purple
	Round	6	TSL	Red
		4	OP	White with parallel undulating lines in Red & Green. Green lines have buff spots at apexes & Red lines have Black spots.
		5	OP	White with irregular & wavy Yellow & Green lines + incl sed parallel bands on surface
	1	OP	White/3 Black stripes	
	1	OP	White/3 Purple stripes	
Molded	Round	4	TSL	Red with White leaves & Blue dots

Table 7.112: Alpaewyma burial #56 (sex unknown) glass bead typology (after Rodeffer & Rodeffer 1972: 90).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	1097	TSL	Blue
		5	OP	White
		1	OP	Green

Table 7.113: Alpaewyma burial #64 (infant) glass bead typology (after Rodeffer & Rodeffer 1972: 92).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	2	TSL	Purple
		26	OP	Black
	Tubular/Circular	276	OP	White

Table 7.114: Alpayweyma burial #65 (infant, aged 18-24 months) glass bead typology (after Rodeffer & Rodeffer 1972: 93).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Circular	64	OP	Yellow
		1	TSL	Red
		9	TSL	Green
		11	OP	Black

Table 7.115: Alpayweyma burial #67 (juvenile) glass bead typology (after Rodeffer & Rodeffer 1972: 96).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular	2	TSL	Red
	Tubular/Facets	2	OP	Purple
		2	TSL	Green
		1	OP	Black
		1	TSL	Black
		5	TSL	Purple
	Tubular/Circular	4	OP	White
		1	OP	Black
		3	TSL	Purple
		4	TSL	Blue
		20	OP	Red
		1	TSL	Amber
	Tubular/Oval	1	TSL	Red
	Tubular/Circular Multi-layered (Cornaline d'Aleppo)	9	TSL	Red/White
Wound	Tubular	1	TSL	Green
		1	OP	Green with Red stripe framed by 2 White stripes around the middle with a Green drop on each side
	Oval	1	OP	Black with 2 White stripes
		1	OP	Blue with 2 Red stripes bounded by White
		1	OP	Blue with 2 White stripes

Table 7.116: Alpayweyma burial #74a (child) glass bead typology (after Rodeffer & Rodeffer 1972: 101).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	1	TSL	Red
		5	TSL	Purple
	Tubular/Oval	1	TSL	Red

	Tubular/Circular	1	TSL	Purple
		98	OP	Black
		17	OP	Green
		1	TSL	Blue
		1	TSL	Green
		221	OP	White
Wound	Circular	1	TSL	Blue

Table 7.117: Alpaueyma burial #84 (child) glass bead typology (after Rodeffer & Rodeffer 1972: 105).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	8	TSL	Purple
		1	TSL	Red
		1	OP	White
	Tubular/Circular	70	TSL	Blue
		142	OP	White
		16	TSL	Red
		4	TSL	Green
		28	OP	Green
	Tubular/Circular Multi-layer (Cornaline d'Aleppo)	11	OP	Red/White
Wound	Oval	1	TSL	Blue
		3	OP	White
		1	OP	Green/3 White stripe panels enclosing a series of 3 vertical Black dots/White rim

Table 7.118: Alpaueyma burial #86 (adult male) glass bead typology (after Rodeffer & Rodeffer 1972: 112).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	1	TSL	Purple
	Tubular/Circular	5	OP	White
		1	OP	Blue
		1	OP	Amber
		25	TSL	Blue
	Tubular/Oval	5	OP	White
Wound	Circular	17	TSL	Green

Table 7.119: Alpaueyma burial #89 (child, aged 10-12 years) glass bead typology (after Rodeffer & Rodeffer 1972: 115).

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>
Drawn	Tubular/Facets	1	TSL	Blue
	Tubular/Circular	21	OP	Black
		2	OP	Green
		4	OP	White
		2	OP	Purple
	Tubular/Circular	1	OP	Red/Yellow
	Multi-layer (Cornaline d'Aleppo)			
Wound	Oval	8	OP	White/Red

Table 7.120: Alpaueyma burial site color scheme percentages.

<u>Color</u>	<u>Quantity</u>	<u>Percentage</u>
White	10561	73.4
Blue	1644	11.4
Black	1075	7.5
Red/White (Cornaline d'Aleppo)	541	3.8
Green	150	1.0
Purple	137	0.9
Red	126	0.8
Yellow	67	0.5
Amber	35	0.2
Amber/White	8	<0.1
White/Red	8	<0.1
White with Yellow & Green irregular & wavy lines & incised parallel bands on surface	5	<0.1
Red with White leaves & 3 Blue dots	4	<0.1
White with Red & Green parallel, undulating lines & the Green lines have buff spots at apexes while the Red have Black spots	4	<0.1
Black with 2 White stripes	2	<0.1
Unknown	2	<0.1
Blue with 2 White stripes	1	<0.1
Blue with 2 Red stripes		
bordered by White	1	<0.1
White with 2 Purple spots	1	<0.1
Green with 3 panels of White stripes enclosing a series of 3 vertical Black dots with a White rim	1	<0.1
Red/Yellow (Cornaline d'Aleppo)	1	<0.1
White with 3 Black stripes	1	<0.1
White with Red stripe framed by 2 White stripes around the circumference with Green drop on opposite sides	1	<0.1

Table 7.121: Additional Nez Perce burial site glass beads.

<u>Style</u>	<u>Type</u>	<u>Qty.</u>	<u>Diaphaneity</u>	<u>Color</u>	
Drawn	Seed	294	OP	White	
		68	OP	Blue	
		9	TSP	Green	
		208	OP	Black	
		1	OP	Yellow	
		9	TSP	Red	
		Seed/Cornaline d'Aleppo	101	OP	Red/White
		Pony	4	OP	White
			6	TSP	Green
	Pony/Cornaline d'Aleppo	10	OP	Red/White	
	Tubular Cornaline d'Aleppo	7	OP	Red/White	
	Tubular/Facets	17	TSP	Clear	
	Ground ends/Facets	8	TSP	Milky white	
	Tubular	50	TSP	Blue	
		7	TSP	Green	
		1	TSP	Amber	
	Wound	Globular	9	OP	White
			30	TSP	Amber
			2	OP	Red/White dot flower applique decoration
			1	TSP	Red
54			TSP	Blue	
9			TSP	Green	
Globular (Cornaline d'Aleppo)		6	OP	Red/White	
Globular-possible Cornaline d'Aleppo		1	OP	Red/White w/ White with White swirled & combed decoration	
Oval		11	OP	White	
		7	TSP	Red	
Oval-possible Cornaline d'Aleppo		1	OP	Red/White w/ White applique flowers	
Disk		1	OP	White	
Torus		1	OP	White	
		2	TSP	Green	
Barrel/Bi-conical		1	OP	Blue	
	1	OP	White w/wound		

		4	OP	decoration around middle w/ Yellow dots & Red winding on 1 end
		1	OP	Blue w/White wound on 1 end
				White with Red central decoration in White w/Yellow dots
Mandrel-Pressed	Double Oval	1	TSP	Red
	Globular	1	OP	Blue

Table 7.122: Additional Nez Perce burial site glass bead color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	328	35.0
Black	208	22.0
Blue	174	18.4
Red/White (Cornaline d'Aleppo)	124	13.1
Green	33	3.5
Amber	31	3.3
Red	18	1.9
Clear	17	1.8
Blue with White winding on 1 end	4	0.4
Red/White with White dot flower applique (possible Cornaline d'Aleppo)	2	> 0.2
Yellow	1	< 0.1
Red/White with White swirled comb (possible Cornaline d'Aleppo)	1	< 0.1
Red/White with White flower applique (possible Cornaline d'Aleppo)	1	< 0.1
White with wound decoration around circumference with Yellow dots & Red winding on 1 end	1	< 0.1
White with Red central decoration in White with Yellow dots	1	< 0.1

Table 7.123: Compilation of all Nez Perce burial site glass bead color scheme percentages.

<u>Color</u>	<u>Qty.</u>	<u>Percentage</u>
White	10896	63.4
Blue	3677	21.4
Black	1283	7.5
Red/White (Cornaline d'Aleppo)	665	3.9
Green	184	1.1
Red	144	> 0.8
Purple	137	< 0.8
Yellow	69	0.4
Amber	66	0.4

Clear	17	0.1
Amber/White	8	<0.1
White/Red	8	<0.1
White with Yellow & Green irregular & wavy lines & incised parallel bands on surface	5	<0.1
Red with White leaves & 3 Blue dots	4	<0.1
White with Red & Green parallel, undulating lines & the Green lines have buff spots at apexes while the Red have Black spots	4	<0.1
Blue with White winding on 1 end	4	<0.1
Red/White with White dot flower applique (possible Cornaline d'Aleppo)	2	<0.1
Black with 2 White stripes	2	<0.1
Unknown	2	<0.1
Blue with 2 White stripes	1	<0.1
Blue with 2 Red stripes bordered by White	1	<0.1
White with 2 Purple spots	1	<0.1
Green with 3 panels of White stripes enclosing a series of 3 vertical Black dots with a White rim	1	<0.1
Red/Yellow (Cornaline d'Aleppo)	1	<0.1
White with 3 Black stripes	1	<0.1
White with Red stripe framed by 2 White stripes around the circumference with Green drop on opposite sides	1	<0.1
Yellow	1	<0.1
Red/White with White swirled comb (possible Cornaline d'Aleppo)	1	<0.1
Red/White with White flower applique (possible Cornaline d'Aleppo)	1	<0.1
White with wound decoration around circumference with Yellow dots & Red winding on 1 end	1	<0.1
White with Red central decoration in	1	<0.1
White with Yellow dots	1	<0.1

Table 7.124: Compilation of all glass bead color schemes found in the Washington archaeological sites.

<u>Color</u>	<u>Qty.</u>	<u>Percentages</u>
White	29466	41.9
Pink	10869	15.5
Blue	9056	12.9
Green	7700	10.9
Red/White (Cornaline d'Aleppo)	7336	10.4
(ALL Cornaline d'Aleppo)	(7500)	(10.7)
Black	3423	4.9
Yellow	1173	1.7
Purple	379	0.5
Red	257	0.4
Red/Blue (Cornaline d'Aleppo)	159	0.2
Blue/White/Blue	120	> 0.1

Pink/White spiral/Blue	116	> 0.1
Amber	79	> 0.1
Clear	64	< 0.1
Brown	25	< 0.1
Blue/White	21	< 0.1
Yellow/Green	12	< 0.1
Amber/White	8	< 0.1
White/Red	8	< 0.1
White with Yellow & Green irregular & wavy lines & incised parallel bands on surface	5	< 0.1
Angular Blue with dots	5	< 0.1
Red with White leaves & 3 Blue dots	4	< 0.1
White with Red & Green parallel, undulating lines & the Green lines have buff spots at apexes while the Red have Black spots	4	< 0.1
Blue with White winding on 1 end	4	< 0.1
Red/Green (Cornaline d'Aleppo)	4	< 0.1
Burned/Unknown	3	< 0.1
Clear/White	3	< 0.1
Pink-Red with a Gold tint/White	3	< 0.1
Mottled Pink-Red with a Gold tint/White	3	< 0.1
Pink/White	3	< 0.1
Orange/White	2	< 0.1
Blue/White/Blue/White	2	< 0.1
Red/White with White dot flower applique (possible Cornaline d'Aleppo)	2	< 0.1
Black with 2 White stripes	2	< 0.1
Blue with 2 White stripes	1	< 0.1
Blue with 2 Red stripes bordered by White	1	< 0.1
White with 2 Purple spots	1	< 0.1
Green with 3 panels of White stripes enclosing a series of 3 vertical Black dots with a White rim	1	< 0.1
Red/Yellow (Cornaline d'Aleppo)	1	< 0.1
White with 3 Black stripes	1	< 0.1
White with Red stripe framed by 2 White stripes around the circumference with Green drop on opposite sides	1	< 0.1
Red/White with White swirled comb (possible Cornaline d'Aleppo)	1	< 0.1
Red/White with White flower applique (possible Cornaline d'Aleppo)	1	< 0.1
White with wound decoration around circumference with Yellow dots & Red winding on 1 end	1	< 0.1
White with Red central decoration in White with Yellow dots	1	< 0.1
White/Blue	1	< 0.1
White/Red/Green	1	< 0.1
Blue/Green	1	< 0.1
Purple/Green	1	< 0.1
Pink spiral/White	1	< 0.1
Brown/White	1	< 0.1
Clear/Red	1	< 0.1
Green/White/Red/White	1	< 0.1

Table 8.1: Pacific West Coast major glass bead color preferences.

<u>Color</u>	<u>California</u>	<u>Pct.</u>	<u>Oregon</u>	<u>Pct.</u>	<u>Washington</u>	<u>Pct.</u>
Blue	1705	25.5	507	19.0	9056	12.9
Clear	241	3.6	1127	42.3	64	<0.1
White	1236	18.5	447	16.8	29466	41.9