

SITE NO.: State: 13404 PHRI: T-187
SITE TYPE: Enclosure
TOPOGRAPHY: The terrain consists primarily of pahoehoe flows.
VEGETATION: Kiawe, Christmas-berry, fountain grass, lantana, and koa-haole.
ELEVATION: c. 311 feet
CONDITION: Poor-fair
INTEGRITY: May be partially altered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture/
possible habitation
DIMENSIONS: 15.00 m by 13.80 m by 0.70 m
DESCRIPTION: This site is a circular enclosure wall which becomes a terrace at the southwest end. The wall is somewhat collapsed, rubble filled, and 1-4 courses high. It is faced along the interior and exterior edges and is 1.00-1.50 m wide. The terrace portion at the southwest end measures 4.00 by 4.00 m.

SITE NO.: State: 13405 PHRI: T-188
SITE TYPE: Complex (15+ Features)
TOPOGRAPHY: Predominantly pahoehoe flows.
VEGETATION: Christmas-berry, koa-haole, lantana, kiawe, and fountain grass.
ELEVATION: c. 325 feet
CONDITION: Fair
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The overall complex area measures 25.00 m N-S by 20.00 m E-W. It consists of at least 15 pahoehoe excavations with associated pahoehoe rubble. The complex consists of excavated pahoehoe blisters containing some fill of pahoehoe cobbles, pebbles, clinkers and soil.

SITE NO.: State: 13406 [P] PHRI: T-189
SITE TYPE: Pahoehoe excavation
ELEVATION: c. 332-335 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13407 [P] PHRI: T-190
SITE TYPE: Complex (2 Features)
ELEVATION: c. 319 feet
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The overall complex area measures c. 8.0 m by 5.0 m. The site consists of a mound and a pahoehoe excavation.

SITE NO.: State: 13408 [P] PHRI: T-191
SITE TYPE: Complex (19+ Features)
ELEVATION: c. 350 feet

FUNCTIONAL INTERPRETATION: Agriculture/
possible habitation/possible ceremonial
DESCRIPTION: The complex includes a platform (15.00 by 10.00 m), a terrace, five walls, two enclosures, and at least 10 pahoehoe excavations. Two of the walls are connected to the platform.

SITE NO.: State: 13409 [P] PHRI: T-192
SITE TYPE: Complex (9 Features)
TOPOGRAPHY: --
VEGETATION: --
ELEVATION: c. 354 feet
CONDITION: --
INTEGRITY: --
PROBABLE AGE: --
FUNCTIONAL INTERPRETATION: Agriculture/
habitation/possible burial
DESCRIPTION: The site consists of three platforms (Features A, G and H), two walls (Features B and I), an enclosure (Feature C) and three terraces (Features D-F). Measurements are available for the three platforms.

FEATURE A: Platform
FUNCTION: Agriculture/habitation
DIMENSIONS: 12.00 m by 6.00 m by 1.00 m

FEATURE G: Platform
FUNCTION: Agriculture/possible burial
DIMENSIONS: 4.00 m by 3.00 m by 0.50 m

FEATURE H: Platform
FUNCTION: Agriculture/possible burial
DIMENSIONS: 3.00 m by 2.00 m

SITE NO.: State: 13410 [P] PHRI: T-193
SITE TYPE: Platform
ELEVATION: c. 349 feet
FUNCTIONAL INTERPRETATION: Habitation
DIMENSIONS: 16.00 m by 14.00 m by 0.00 m
DESCRIPTION: The platform surface is paved with a C-shape constructed on top. The C-shape contains hand-blown glass.

SITE NO.: State: 13411 [P] PHRI: T-194
SITE TYPE: Complex (4 Features)
ELEVATION: c. 366 feet
FUNCTIONAL INTERPRETATION: Agriculture/land
division
DESCRIPTION: The site consists of three walls and a mound. The longest wall is at least 100.00 m long, and is oriented NW-SE.

SITE NO.: State: 13412 [P] PHRI: T-195
SITE TYPE: Complex (2 Features)
ELEVATION: c. 364 feet
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The site consists of an enclosure and a terrace. The enclosure is c. 40.00 by 40.00 m square and the walls average 1.00 m high. The terrace is located inside the enclosure, at the southeast corner.

SITE NO.: State: 13413 [P] PHRI: T-196
SITE TYPE: Platform
ELEVATION: c. 336 feet
FUNCTIONAL INTERPRETATION: Habitation/
 agriculture
DIMENSIONS: 4.00 m by 4.00 m by 0.80 m
DESCRIPTION: The platform is faced on all sides and the surface interior is paved.

SITE NO.: State: 13414 PHRI: T-197
SITE TYPE: Complex (20+ Features)
TOPOGRAPHY: The terrain consists mostly of pahoehoe flows.
VEGETATION: Kiawe, Christmas-berry, and lantana.
ELEVATION: c. 341 feet
CONDITION: Fair
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The complex consists of excavated pahoehoe blisters and flow edges. It covers an area 25.00 by 20.00 m. No formal construction or portable remains were evident.

SITE NO.: State: 13415 PHRI: T-198
SITE TYPE: Terrace
TOPOGRAPHY: There is a pahoehoe flow adjacent and to the northwest of the site.
VEGETATION: Koa-haole, Christmas-berry, and lantana.
ELEVATION: c. 328 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DIMENSIONS: 10.30 m by 3.80 m by 0.80 m
DESCRIPTION: The terrace is raised on the southeast side with pahoehoe slabs that are stacked three to four courses high. The northwest side is filled with pahoehoe slabs, cobbles and clinkers and abuts a pahoehoe flow edge.

SITE NO.: State: 13416 PHRI: T-199
SITE TYPE: Complex (2 Features)
TOPOGRAPHY: Pahoehoe flows on a mild slope.

VEGETATION: Christmas-berry, kiawe, koa-haole, lantana, and fountain grass
ELEVATION: c. 337 feet
CONDITION: Fair
INTEGRITY: May be partially altered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The overall complex area measures 10.0 m (N-S) by 4.0 m (E-W). It consists of a rubble wall with associated terrace and a wall.

FEATURE - : Rubble wall with terrace
FUNCTION: Agriculture
DIMENSIONS: 10.00 m by 1.20 m by 0.70 m
DESCRIPTION: A rubble filled wall which becomes terrace-like at the northern end. The wall is two to three courses of stacked pahoehoe slabs on edge. It is filled with cobbles and pebble size basalt. The wall measures 8.00 m long by 1.00 m wide and 0.40-0.60 m high.

The terrace is constructed with large pahoehoe boulders, piled two to three courses, with cobble and clinker backfill towards a pahoehoe ledge. It measures 2.00 m long by 1.20 m wide and 0.70 m high. Immediately to the east is another rubble filled wall. Cobble and clinker size pahoehoe are between the two walls.

FEATURE - : Wall
FUNCTION: Agriculture
DIMENSIONS: 3.40 m by 0.80 m by 0.50 m
DESCRIPTION: The wall is oriented N-S. It is constructed with 2-3 courses of stacked pahoehoe slabs on edge with cobble and clinker fill. It is east and parallel to the previous rubble wall/terrace with scattered cobbles and pebbles in between.

SITE NO.: State: 13417 PHRI: T-200
SITE TYPE: Pahoehoe excavation
ELEVATION: c. 325 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13418 PHRI: T-201
SITE TYPE: Pahoehoe excavation
ELEVATION: c. 328 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13419 PHRI: T-202
SITE TYPE: Pahoehoe excavation
ELEVATION: c. 306 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13420 PHRI: T-203
SITE TYPE: Complex (8 Features)
ELEVATION: c. 515 feet
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: This complex consists of eight rock mounds

SITE NO.: State: 13421 PHRI: T-204
SITE TYPE: Complex (18+ Features)
TOPOGRAPHY: Pahoehoe and aa flows on gentle sloping terrain.
VEGETATION: Christmas-berry, lantana, and fountain grass.
ELEVATION: c. 496 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture-habitation
DESCRIPTION: The overall complex area measures 30.0 m (E-W) by 15.0 m (N-S). It is located 50.0 m at 350 degrees from Site 13422.

The site consists of three rock cairns (Features A through C) one cave shelter (Feature D), ten pahoehoe excavations three of which are filled with pahoehoe cobbles, and four small paved areas. Also, several naturally collapsed blisters are in the area.

FEATURE A: Cairn
FUNCTION: Indeterminate
DIMENSIONS: 0.80 m by 0.73 m by 0.45 m
DESCRIPTION: Two pahoehoe boulders and eight pahoehoe cobbles are stacked, two courses high, on a pahoehoe flow. The largest boulder is on top.

FEATURE B: Cairn
FUNCTION: Indeterminate
DIMENSIONS: 1.05 m by 0.75 m by 0.45 m
DESCRIPTION: This cairn is located c. 12.00 m southeast from Feature A. It consists of three courses high of pahoehoe boulders with one pahoehoe slab on top. It is built atop a pahoehoe excavation.

FEATURE C: Cairn
FUNCTION: Indeterminate
DIMENSIONS: 0.60 m by 0.45 m by 0.43 m
DESCRIPTION: Feature C is built on the edge of a pahoehoe ledge excavation, 11.00 m northwest from Feature B. It is constructed with three pahoehoe blocks measuring c. 30x40x14 cm stacked two courses high.

FEATURE D: Cave
FUNCTION: Agriculture/habitation
DIMENSIONS: 60.00 m by 1.90 m by 1.10 m
DESCRIPTION: Feature D is a lava tube adjacent to Feature A, oriented at 260 degrees Az. The entrance measures 3.2 m wide and 1.1 m high. Portable remains observed include Cellana shell, feral goat bones, and wood.

SITE NO.: State: 13422 PHRI: T-205
SITE TYPE: Complex (8+ Features)
ELEVATION: c. 500 feet
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The site consists of at least seven pahoehoe excavations and a cairn. The cairn is collapsed.

SITE NO.: State: 13423 PHRI: T-206
SITE TYPE: Complex (80 Features)
TOPOGRAPHY: Gently sloping pahoehoe with areas of natural disturbance.
VEGETATION: Thick Christmas-berry, small koa-haole, and scattered lantana.
ELEVATION: c. 498 feet
CONDITION: Fair-good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric-early historic
FUNCTIONAL INTERPRETATION: Agriculture-habitation
DESCRIPTION: This site is located c. 67.00 to 70.00 m from Site 13422 at 315 degrees Az. The overall complex area measures 133.25 m at 180 degrees Az. by 78.0 m at 255 degrees Az. It consists of 36 small rock mounds/piles, 23 large rock mounds, eight pahoehoe excavations, eight modified outcrops/depressions, two alignments, one overhang shelter, one modified cave and one modified blister with a few pieces of Cypraeidae shell and small pockets of soil.

The modifications are made with pahoehoe blocks with no formally faced walls. The construction is mostly of loose stacks and loosely piled mounds of rocks.

The features may continue beyond the present identified boundaries. The vegetation makes it very difficult to determine accurately.

SITE NO.: State: 13424 PHRI: T-207
SITE TYPE: Complex (3 Features)
TOPOGRAPHY:
VEGETATION: Christmas-berry, air plants, guava, koa-haole and fountain grass.
ELEVATION: c. 511 feet

CONDITION: Poor-fair
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture/
 possible ceremonial

DESCRIPTION: The overall complex area measures c. 23.0 m at 350 degrees by 17.3 m at 80 degrees.

FEATURE A: Pahoe hoe excavation

FUNCTION: Agriculture

DIMENSIONS: 10.75 m by 3.52 m by 0.54 m

DESCRIPTION: A blister type of pahoe hoe excavation in which the excavated area has been filled in with angular pahoe hoe pebbles, cobbles and boulders and with an alignment of possible steppingstone slabs of pahoe hoe. Roughly rectangular shape in plan, cobbles and pebbles have been placed on the northern corner, 1-2 courses high, and measures 2.1 m by 0.72 m and 0.2 m high.

The SE corner of the entire excavated area has cobbles strewn haphazardly about. The excavated area at the SE corner, also blister type has been filled in with large boulders, cobbles and pebbles. This excavated blister measures 3.0 m by 2.48 m. A Christmas-berry tree is growing out of this excavation.

A pahoe hoe finger divides the blister into two excavations and measures 1.75 m by 0.57 m. Approximately 1.58 m apart, pahoe hoe slabs and cobbles have been placed oriented south in a linear direction, but slabs are laying flat on top of the pahoe hoe finger. The largest slab is 0.57 m and the smallest is 0.34 m in length.

FEATURE B: Modified outcrop (*Figure A-40*)

FUNCTION: Agriculture

DIMENSIONS: 9.00 m by 3.90 m by 0.35 m

DESCRIPTION: This feature is a shallow excavated blister that has been filled with pahoe hoe blocks and cobbles. The surface of the filled area is relatively level and contains three areas of pebble pavement, outlined with larger cobbles. Two of the pebble areas are adjacent to one another in the western half of the blister. They are roughly circular in plan, with interior areas 0.75 m in diameter. The third pebble area is at the eastern end of the blister, in a deeper section (0.27 m below surface). The surface area of this pebble plot is 1.50 by 1.40 m.

A 0.50 by 0.50 m sq test unit was excavated into the westernmost pebble-paved plot, in order to determine the nature of the fill, and if subsurface features were present. The pebble fill was found to be 0.26 m thick and overlying

a 0.05 m thick deposit of silty loam. No cultural deposits or portable remains were located in the test unit. The soil deposit was sampled for further analysis (see subsurface findings).

FEATURE C: Cairn

FUNCTION: Indeterminate marker

DIMENSIONS: 0.85 m by 0.80 m by 0.47 m

DESCRIPTION: The cairn is located 15.00 m northwest from Feature B. It is generally circular shape in plan, and constructed with pahoe hoe cobbles and slabs stacked two courses high. It is built on ropy pahoe hoe with large cobbles at the base of the structure and smaller cobbles on top. The cairn is presently collapsed.

SITE NO.: State: 13425 PHRI: T-208

SITE TYPE: Complex (4 Features)

TOPOGRAPHY: Terrain consists of a gentle westward slope, irregular and disturbed pahoe hoe flow with a northwestern exposure.

VEGETATION: Christmas-berry, lantana, noni, and sparse grass.

ELEVATION: c. 521 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric-early historic

FUNCTIONAL INTERPRETATION: Agriculture-habitation

DESCRIPTION: The overall complex area measures 38.50 m at 225 degrees Az. by 23.90 m. Identified features include two modified outcrops (Features A and B), a cave (Feature C), and a rock mound (Feature D).

FEATURE A: Modified blister

FUNCTION: Agriculture

DIMENSIONS: 9.25 m by 6.90 m by 0.87 m

DESCRIPTION: This feature is a collapsed blister that was modified to form boulder alignments and pavement fill. In the eastern portion of the blister is a pavement of pebble size pahoe hoe pieces. Abutting the eastern wall of the outcrop, boulder alignments surround the western edge and divide the pavement into two areas. The pavement measures 3.50 m (E- W) by 2.00 m on the north side of the boulder alignment. On the south side of the alignment the pavement measures 3.20 m E-W by 3.0 m N-S at its widest point. It is a C- shape with a wall of boulders and cobbles on the northwest edge of the terrace and a circular alignment. The rock wall measures 0.62 m from the outcrop to the north. It is 1.00 m at its widest point and 0.61 m at its highest. The circular alignment is 1.20 m wide on the interior.

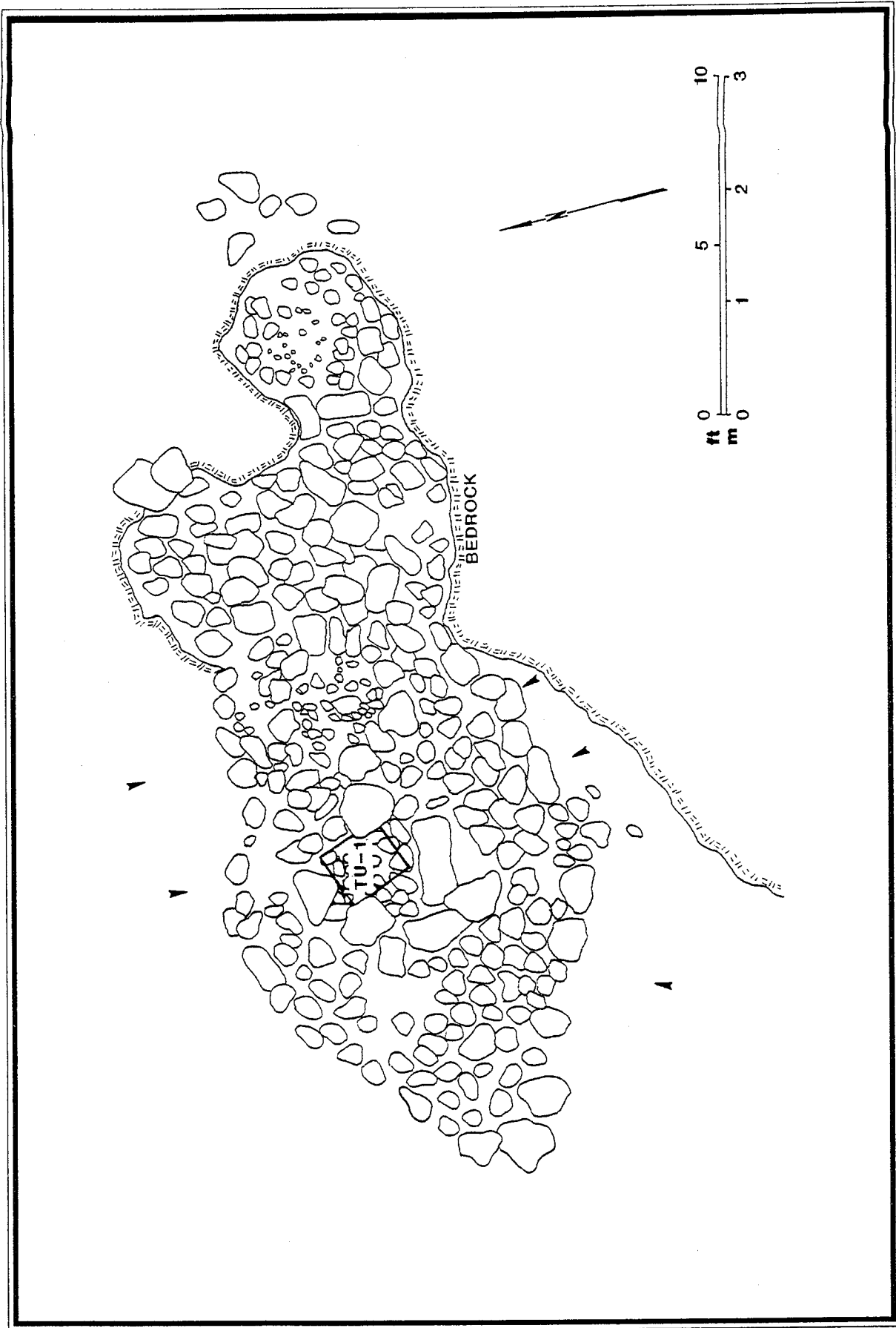


Figure A-40. SITE 13424, FEATURE B

FEATURE B: Modified outcrop**FUNCTION:** Agriculture**DIMENSIONS:** 8.50 m by 5.50 m by 1.15 m

DESCRIPTION: Feature B is 6.00 m from Feature A at 310 degrees Az. It is an oval-shaped depression in pahoehoe that has been cleared of loose cobble and boulder size rubble. The cleared area measures 4.80 m by 2.20 m. Cleared stones are placed in various haphazard alignments along the base perimeter of the broken pahoehoe, some are along the rim slope and more are in piles.

The most formal arrangement is a small wall at the southwest corner between a small cave opening and at the base of the depression. It measures 1.50 m long, 0.50 m wide and 0.40 m high. The sides of the depression are sloping uphill.

There are three cave openings along the west side. The cave openings were examined and no portable remains were visible except for Feature C which has its opening along the southwest side of the Feature B blister rim. Most of the cleared blocks are along the eastern side of the slopes.

A soil area at the base of the depression measures 4.60 by 2.10 m. Average thickness is 0.06-0.08 m; it is black to dark brown granular loam.

FEATURE C: Cave**FUNCTION:** Habitation**DIMENSIONS:** 8.30 m by 3.00 m by 1.20 m

DESCRIPTION: It is situated along the southern rim of Feature B (modified outcrop) 2.00 m from the cleared area. The cave entrance is vertical with the chamber tube extending to the northwest at 220 degrees. The opening measures 1.25 m by 0.70 m with a height of 0.94 m.

The cave is generally unmodified with some evidence of moving large pieces of roof fall towards the edges of the chamber, along a shelf that defines the crawlspace. Four to six large blocks are in loose alignment at the east side of the chamber.

Portable remains consists of kukui nut, a waterworn basalt slab with one side possibly used for grinding, a possible coral abrader, a piece of coral and a large piece of charcoal. Dark brown, granular soil is present in pockets.

FEATURE D: Mound**FUNCTION:** Indeterminate/possible agriculture**DIMENSIONS:** 3.60 m by 3.20 m by 0.65 m

DESCRIPTION: Feature D is 12.00 m northeast from Feature A. It is constructed with aa and pahoehoe cobbles that range in size from 0.03 by 0.04 m to 0.20 by 0.30 m.

SITE NO.: State: 13426 PHRI: T-209**SITE TYPE:** Roadbed**TOPOGRAPHY:** Gently to steeply sloping irregular pahoehoe and aa.**VEGETATION:** Thick lantana, agave, guava, grasses, koa-haole, and kiawe.**ELEVATION:** c. 600 feet**CONDITION:** Good**INTEGRITY:** Unaltered except by present roadway.**PROBABLE AGE:** Historic**FUNCTIONAL INTERPRETATION:** Transportation**DIMENSIONS:** 220.00 m by 6.20 m by 2.00 m

DESCRIPTION: The roadbed is stacked and faced along both sides, up to three courses high in places. The road surface is on a relatively level grade with retaining walls filling in the low places. The west side is also built up to maintain the grade. Most of the roadbed looks like rock fill covered with gravel size pieces of aa and some soil. The height of the roadbed ranges from 0.7 m to 2.0 m. This section of the road goes through the center of Site 13435, Possible Agriculture Complex. The feature appears to be an abandoned section of Palani Road.

SITE NO.: State: 13427 PHRI: T-210**SITE TYPE:** Complex (17 Features)**TOPOGRAPHY:** The terrain consists of pahoehoe lava flow with large boulders scatters on the surface, many of which appear to be quarried material.**VEGETATION:** Christmas-berry, koa-haole, lantana, and fountain grass.**ELEVATION:** c. 590 feet**CONDITION:** Good**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric**FUNCTIONAL INTERPRETATION:** Agriculture

DESCRIPTION: The overall complex area is 50.0 m by 50.0 m. Three rock mounds were individually recorded (Features A- C) and four additional mounds and ten pahoehoe excavations were identified. There are additional agriculture features in the area consisting of rock mounds, pahoehoe excavations and rock alignments. The area is covered with thick vegetation and extensive clearing is required before an accurate count of features can be obtained.

FEATURE A: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 2.36 m by 1.40 m by 0.88 m

DESCRIPTION: The mound is constructed with large boulders stacked three courses high on top of smooth pahoehoe.

FEATURE B: Mound**FUNCTION:** Agriculture

DIMENSIONS: 2.00 m by 1.90 m by 0.95 m

DESCRIPTION: This mound is c. 30.00 m northwest from Feature A. It is constructed with large boulders (some upright) around the base and is filled with small cobbles, piled four courses high.

FEATURE C: Mound

FUNCTION: Agriculture

DIMENSIONS: 2.30 m by 1.40 m by 1.30 m

DESCRIPTION: Semicircular shape in plan, it is constructed with stacked boulders and cobbles. Large boulders are used along the perimeter and faced with cobbles on the interior. This mound is adjacent to Feature B.

SITE NO.: State: 13428 PHRI: T-211

SITE TYPE: Complex (43 Features)

TOPOGRAPHY: The terrain consists of irregular pahoehoe.

VEGETATION: Christmas-berry, lantana, and grass.

ELEVATION: c. 575 feet

CONDITION: Poor-good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 48.0 m at 250 degrees Az. by 20.0 m. Eight features were individually recorded at the site, including five faced mounds (Features A-E), an alignment (Feature F), a platform (Feature G), and a terrace (Feature H). In addition, 25 pahoehoe excavations and 10 rock mounds were enumerated.

FEATURE A: Faced mound

FUNCTION: Agriculture

DIMENSIONS: 1.55 m by 1.50 m by 1.20 m

DESCRIPTION: Generally circular shaped in plan, it is constructed with stacked and faced boulders with smaller cobbles as fill. A cleared pahoehoe excavation is present 0.70 m at 60 degrees from Feature A. The excavation may have been a quarry source for building material.

FEATURE B: Faced mound

FUNCTION: Agriculture

DIMENSIONS: 1.80 m by 1.60 m by 0.95 m

DESCRIPTION: Feature B is c. 4.4 m at 190 degrees to Feature E and 6.9 m at 280 degrees to Feature B. Generally circular shape in plan, it is constructed with stacked boulders along the perimeter and filled with pahoehoe cobbles. Feature B is bounded on all sides by pahoehoe excavations.

FEATURE C: Faced mound

FUNCTION: Agriculture

DIMENSIONS: 1.85 m by 1.80 m by 1.27 m

DESCRIPTION: Circular shape in plan, it is constructed

with stacked pahoehoe boulders along the perimeter and cobble filled. Several boulders have fallen, but for the most part this mound appears to be in good condition. A pahoehoe excavation is adjacent to the east side of the mound.

The center fill of the mound was removed in order to determine if subsurface features were present. The fill was found to consist of undifferentiated cobbles and pebbles, with a slightly higher proportion of pebbles toward the base of the mound. A 0.10 m thick deposit of silty clay loam was encountered beneath the core fill. The soil was directly on unbroken bedrock and contained no portable remains or indications of a cultural deposit. A sample of the soil was collected for further analysis (see subsurface findings).

FEATURE D: Faced mound

FUNCTION: Agriculture

DIMENSIONS: 1.25 m by 1.20 m by 0.45 m

DESCRIPTION: Circular shape in plan, it is constructed with large boulders along the perimeter and filled with cobbles and pebbles. The mound is 7.40 m northwest from Feature B.

FEATURE E: Faced mound

FUNCTION: Agriculture

DIMENSIONS: 1.80 m by 1.80 m by 0.95 m

DESCRIPTION: Generally circular shape in plan, the perimeter is built up with boulders and the interior is filled with cobbles. Feature E has collapsed along the eastern side with other fallen boulders surrounding the mound. It is located 4.2 m east from Feature A.

It is constructed on the very edge of a pahoehoe excavation located on the northern side of the mound. This excavation may have been a quarry source for building material.

The center core filling of the mound was removed in order to determine if subsurface features or deposits were present. The fill was found to be an undifferentiated mixture of pebbles and small cobbles, with slightly more small pebbles toward the base of fill. The bedrock surface under the mound was broken and a soil deposit up to 0.30 m thick was present in the surface hole. No cultural materials or portable remains were located in the soil, however, a single *kukui* nut was located at the base of the pebble fill, 0.57 m below the present top of the mound. A sample of the soil was collected for further analysis (see subsurface findings).

FEATURE F: Alignment

FUNCTION: Indeterminate

DIMENSIONS: 16.00 m by 1.00 m by 0.50 m

DESCRIPTION: Feature F is a boulder alignment that

connects and incorporates adjacent mounds. The alignment begins at the eastern end with a rock mound that measures 3.00 m by 3.00 m. It continues 5.10 m to a second mound that measures 1.90 m in diameter. The alignment continues 6.00 m to the Feature G platform. It continues along the western edge of the platform for 10.00 m to the Feature H terrace. Feature F varies from a single boulder alignment to stacked boulders, two high and three wide, with smaller cobbles used as fill.

FEATURE G: Platform (Figure A-41)

FUNCTION: Agricultural

DIMENSIONS: 3.50 m by 3.25 m by 0.85 m

DESCRIPTION: The platform is roughly rectangular in plan, with convex sides. It is constructed with a stacked pahoehoe boulder perimeter and with pahoehoe boulder and cobble fill. The platform surface was apparently leveled at one time and covered with a pavement of small cobbles and pebbles. Presently, the northern portion is covered with a deposit of large pahoehoe cobbles and slabs, piled to 0.40 m above the exposed portion of the original pavement.

Adjacent to the east side of the platform is a D-shaped terrace, constructed from large cobbles and boulders. The terrace is 2.50 m N-S by 1.50 m E-W and is connected to the Feature F alignment. Large cobbles and boulders are scattered to the east and north of this feature. The terrace surface is very irregular and it resembles a truncated mound.

A 1.00 by 1.00 m square test unit was excavated into the center of the platform in order to determine if subsurface features, such as a human interment, were present. The test unit confirmed that the original paved surface had covered the platform, and that the larger cobbles and slabs had been added later, possibly reflecting a different use phase of the feature. The small pavement fill consisted of only one to two layers of pebbles overlying larger cobble and boulder fill. The cobble/boulder fill varied in thickness from 0.30 to 0.70 m, depending on the underlying bedrock, which was a sloping blister formation. At the base of the large fill layer was a layer of small pebbles and fragments of rock, some of which apparently filtered down through the larger matrix. A layer of silty loam occurred directly on the bedrock surface; it varied in thickness from less than 0.01 m to 0.06 m. A single *kukui* nut (complete but fragmented) was located in the soil zone. No other portable remains were observed. A soil sample was collected for further analysis (see subsurface findings).

FEATURE H: Terrace

FUNCTION: Agriculture

DIMENSIONS: 7.00 m by 5.10 m by 0.80 m

DESCRIPTION: The terrace is located 13.60 m southwest from Feature G. It is constructed with a stacked boulder perimeter and loose boulder and cobble fill. A cleared pahoehoe excavation is located 2.20 m west of the northeast corner of the terrace.

SITE NO.: State: 13429 PHRI: T-212

SITE TYPE: Complex (9 Features)

TOPOGRAPHY: Natural smooth pahoehoe flow with many rock mounds and pahoehoe blister excavations.

VEGETATION: Lantana, Christmas-berry, impatiens, *koa-haole*, and wild 'ilima.

ELEVATION: c. 575 feet

CONDITION: Fair-good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 35.00 m at 45 degrees Az. by 16.00 m. The site consists of two terraces (Features A and B), a modified blister (Feature C) and six mounds (Features D-I). All individual features are oriented in a NE-SW pattern.

FEATURE A: Terrace

FUNCTION: Agriculture

DIMENSIONS: 3.37 m by 2.61 m by 0.70 m

DESCRIPTION: Feature A is a low paved terrace that is rectangular in plan view. It is built on a bedrock outcrop and faced on the east side. The paved area is 1.88 m by 1.2 m with a semicircular retainer built around the paved area. The retaining wall is stacked three courses high. Large boulder and cobble fill make up the terrace interior.

Excavated blocks have been strewn haphazardly on the southeast side. Another terrace (Feature B) is located to the southeast.

FEATURE B: Terrace

FUNCTION: Agriculture

DIMENSIONS: 2.55 m by 1.40 m by 0.48 m

DESCRIPTION: The terrace is semicircular in plan view. Cobbles outline the semicircle with larger cobbles and boulders on top. It is faced and stacked three courses high with boulders and cobbles. The interior is paved with pahoehoe slabs and cobble fill; it measures 1.81 by 1.0 m.

FEATURE C: Modified blister

FUNCTION: Agriculture

DIMENSIONS: 5.57 m by 2.90 m by 0.57 m

DESCRIPTION: The northeast corner of a pahoehoe blister area is paved and filled with small cobbles. This paved area measures 1.79 m by 0.95 m.

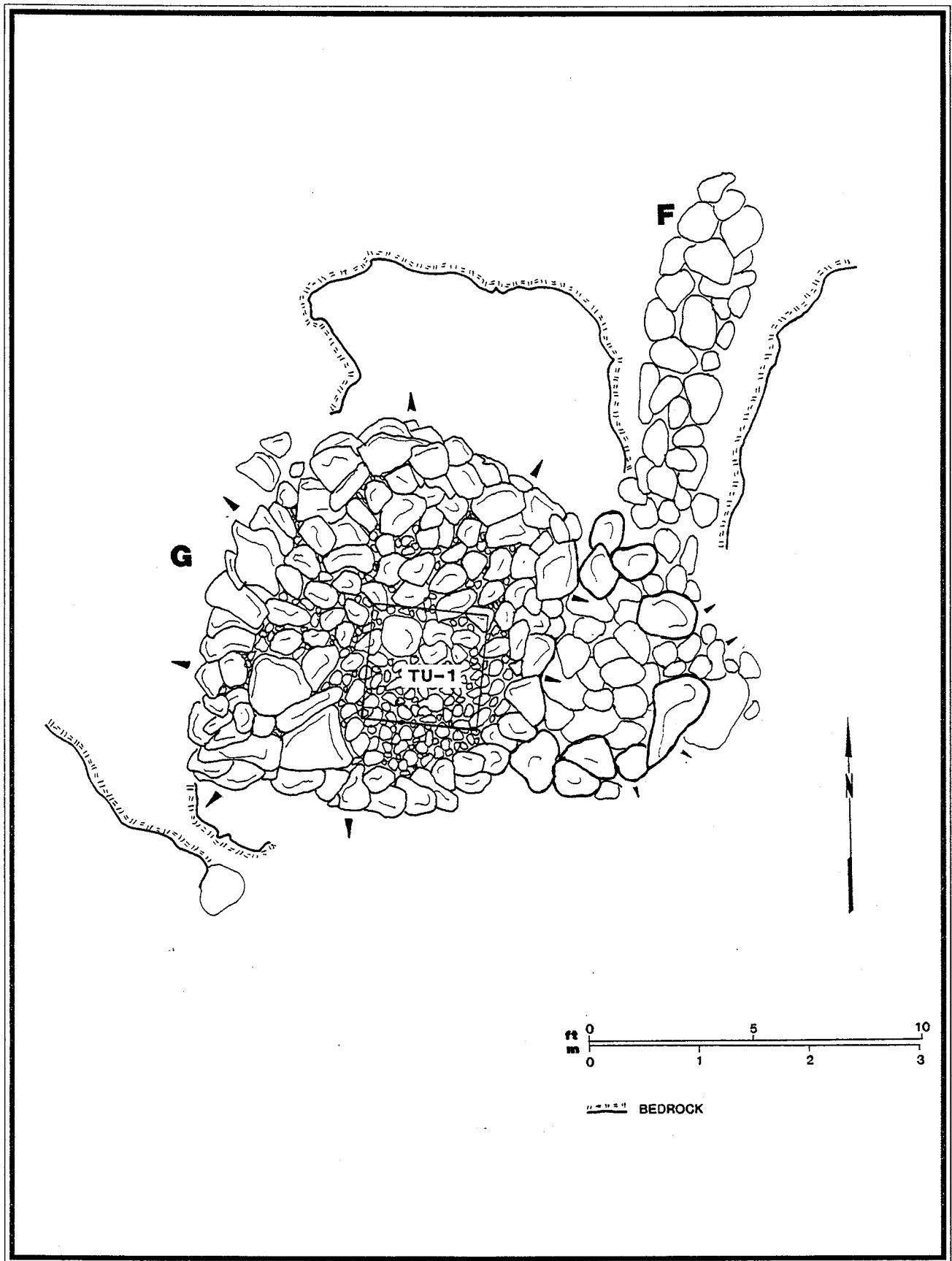


Figure A-41. SITE 13428, FEATURE G

An alignment built with large boulder size slabs is 1.50 m to the southwest. It is oriented NE-SW and measures 2.84 m by 0.61. In the center of the alignment along the exterior is an upright that measures 0.55 m by 0.43 m. The other slabs vary slightly in dimensions. Ten pahoehoe slabs make up this linear alignment.

In the center of the blister and the alignment is an excavated area with cobbles haphazardly placed. It contains soil with lantana bushes and measures 1.93 by 1.72 m.

FEATURE D: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 2.20 m by 2.00 m by 0.70 m

DESCRIPTION: Feature D is 5.0 m at 215 degrees Az. from Feature A. It consists of a rock mound constructed along an excavated blister. The mound is built with stacked cobbles two to three courses high. The cobbles appear to derive from the pahoehoe excavation.

FEATURE E: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 3.00 m by 2.60 m by 0.80 m

DESCRIPTION: Feature E is 3.0 m at 215 degrees Az. from Feature D. It is a rock mound consisting of irregular stacked cobbles. Boulders are at the base of Feature E with smaller cobbles stacked on top.

FEATURE F: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 1.60 m by 1.40 m by 0.65 m

DESCRIPTION: Feature F is situated 2.00 m at 215 degrees Az. from Feature E. It is faced with large upright boulders with cobble fill, three to four courses high.

FEATURE G: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 2.30 m by 2.00 m by 1.00 m

DESCRIPTION: Feature G is 6.0 m at 40 degrees Az. from Feature H. It is semicircular shape in plan and is constructed with large boulders, some upright, surrounding the base. Cobbles are used as interior fill.

FEATURE H: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 2.30 m by 1.60 m by 0.45 m

DESCRIPTION: Semicircular shape in plan, it is constructed with stacked boulders and cobbles one to two courses high.

FEATURE I: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 2.24 m by 1.40 m by 0.80 m

DESCRIPTION: Circular in shape at the base, it narrows at the top. Large boulders are at the base with cobbles piled and stacked on top, two courses high. Feature I is built on top of a natural pahoehoe flow.

SITE NO.: State: 13430 PHRI: T-213**SITE TYPE:** Complex (15 Features)

TOPOGRAPHY: The terrain consists of a smooth pahoehoe flow.

VEGETATION: Christmas-berry, lantana, wild ilima, and koa-haole.

ELEVATION: c. 549-550 feet**CONDITION:** Good**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture-habitation

DESCRIPTION: The overall complex area measures 24.5 m at 245 degrees Az. by 6.50 m. Three structures were given feature designations. They consist of a platform (Feature A) and two mounds (Features B and C). In addition to the measured features, six mounds, a collapsed blister and five pahoehoe excavations were enumerated. The features are patterned in a linear formation, oriented NE-SW.

FEATURE A: Platform**FUNCTION:** Possible habitation/agriculture**DIMENSIONS:** 4.90 m by 4.30 m by 0.60 m

DESCRIPTION: Rectangular shape in plan, it is outlined with large boulders and filled with cobbles and pebbles. A soil deposit is visible in the center of the platform. On the southwest edge are pahoehoe slabs extending the length of the feature.

FEATURE B: Mound**FUNCTION:** Indeterminate/agriculture**DIMENSIONS:** 1.60 m by 1.35 m by 0.70 m

DESCRIPTION: Feature B consists of slab boulders and large cobbles, stacked three to four courses high in an irregular fashion. To the south of the mound (1.50 m) is a small rock pile that measures 1.30 by 1.10 m. Another rock pile or possible alignment is 3.00 m to the southwest; it measures 2.10 m (N-S) by 1.0 m (E-W). A collapsed blister with some piled rock is 6.00 m southwest. Surrounding this collapsed blister are several pahoehoe excavations.

FEATURE C: Mound**FUNCTION:** Possible agriculture**DIMENSIONS:** 2.00 m by 1.90 m by 0.95 m

DESCRIPTION: The mound is roughly faced on the southeast side. It is constructed with boulders and cobbles stacked five courses high. Large boulders (some upright)

surround the base; cobbles are used as interior fill. Within a 10.0 m range are additional features consisting of five pahoehoe excavations and four rock mounds.

SITE NO.: State: 13431 PHRI: T-214

SITE TYPE: Complex (6 Features)

TOPOGRAPHY: The terrain consists of a pahoehoe flow that has been extensively altered by agricultural activities

VEGETATION: Christmas-berry, koa-haole, lantana, and kiawe.

ELEVATION: c. 540 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture-habitation

DESCRIPTION: The overall complex area measures 20.0 m at 65 degrees Az. by 24.40 m. This site consists of a blister type cave with modifications (Feature A), two enclosures (Features B and C), a pahoehoe excavation (Feature E) and a terrace (Feature F). Portable remains consisting of Cypraeidae, Isognomonidae, kukui nut shell fragments, coral and charcoal were observed in Feature A. In addition there are c. 5-7 pahoehoe excavations within a 10.0 m range around the complex.

FEATURE A: Cave

FUNCTION: Habitation

DIMENSIONS: 4.40 m by 3.30 m by 1.08 m

DESCRIPTION: The overall feature measures 8.00 by 3.30 m. The interior dimensions are 4.4 m (N-S) by 3.3 m (E-W) with an average ceiling height of 0.95 m.

Preceding the entry of the cave is a paved area that measures 3.60 m by 3.00 m. The entry is partially closed with stacked pahoehoe boulders. It is 0.90 m wide, 1.00 m high and faces 250 degrees Az. Immediately to the right of the entry is a small shelf constructed of pahoehoe boulders and paved with small cobbles.

The rear of the cave has been modified with large pahoehoe boulders and small cobbles. To the right rear of the cave is a small enclosure measuring 1.13 m by 0.70 m. It is constructed with large boulders and small cobbles with the floor covered with large cobbles. At the left rear of the cave is a collapsed enclosure of pahoehoe cobbles. The floor of this enclosure is covered with a sandy gravelly loam with kukui nuts. This area measures 1.20 m by 0.85 m.

Portable remains observed in the cave include Cypraeidae and Isognomonidae shells, coral and a partially burned piece of wood, in addition to the kukui nut shell.

FEATURE B: Enclosure

FUNCTION: Agriculture

DIMENSIONS: 11.00 m by 5.40 m by 0.60 m

DESCRIPTION: The enclosure is adjacent to Features A and C. It is oval to rectangular shape in plan. The wall of the enclosure is built with stacked pahoehoe boulders for an average width of 0.20 m. The interior of the enclosure is covered with a gravelly loam and scattered cobbles. The southern end of the enclosure wall rests on top of Feature A entrance. The western wall is shared with the Feature C enclosure. This shared wall is presently higher and in better condition compared with the remaining walls.

FEATURE C: Enclosure

FUNCTION: Agriculture

DIMENSIONS: 12.50 m by 10.00 m by 0.80 m

DESCRIPTION: Oval shape in plan, it is constructed with large pahoehoe boulders and slabs with cobble fill. It is two to three courses high and the wall is approximately 0.40 m wide. The floor interior contains a 0.03 to 0.04 m thick deposit of sandy, gravelly loam with scattered pahoehoe boulders and cobbles.

The northwest section of this enclosure seems to be leveled with smaller cobbles and gravel. Within this area are 5 to 6 filled depressions/possible pahoehoe excavations ranging in size from 0.70 m to 1.50 m across.

FEATURE D: Pahoehoe excavation

FUNCTION: Agriculture

DIMENSIONS: 3.30 m by 2.85 m by 0.55 m

DESCRIPTION: A cleared blister type pahoehoe excavation. It is bordered on the north by the Feature C enclosure wall. The quarried boulders have been removed from the excavation, with several remaining around the perimeter. Small cobbles remain in the bottom of the excavation.

Directly west at 0.60 m is another blister type pahoehoe excavation. It is 1.40 m wide and 0.50 m deep.

FEATURE E: Pahoehoe excavation

FUNCTION: Agriculture

DIMENSIONS: 4.80 m by 4.00 m by 0.57 m

DESCRIPTION: A blister type pahoehoe excavation. The excavated boulders and cobbles have been haphazardly strewn in the immediate excavated area. An upright is present next to the excavation.

FEATURE F: Terrace and alignment

FUNCTION: Agriculture

DIMENSIONS: 11.05 m by 38.00 m by 0.42 m

DESCRIPTION: Feature F consists of a circular aligned

paved terrace. It measures 4.28 m at 115 degrees Az. by 1.20 m. The paved area is filled with cobbles and gravels and may be a filled blister. An alignment made up of large pahoehoe boulders and aa cobbles, stacked two courses high, is connected to the terrace. It is oriented N-S and collapsed along sections.

SITE NO.: State: 13432 PHRI: T-215

SITE TYPE: Mound

TOPOGRAPHY: Pahoehoe finger flows.

VEGETATION: Christmas-berry, fountain grass, and koa-haole.

ELEVATION: c. 227 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DIMENSIONS: 1.60 m by 1.60 m by 0.70 m

DESCRIPTION: This site consists of a rock mound with an associated pahoehoe excavation. The rock mound is constructed with loosely piled pahoehoe boulders and is situated 6.00 m east of the excavation.

SITE NO.: State: 13433 PHRI: T-216

SITE TYPE: Cairn

TOPOGRAPHY: Smooth pahoehoe flow and an aa flow southeast of the site.

VEGETATION: Fountain grass, air plants, and Christmas-berry.

ELEVATION: c. 520 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Indeterminate marker

DIMENSIONS: 0.66 m by 0.54 m by 0.48 m

DESCRIPTION: An oval shaped cairn that is stacked two courses high. Large pahoehoe boulders and cobbles make up the structure. It is collapsing along the north side. The total area of scattered rocks measures 1.69 by 0.92 m.

SITE NO.: State: 13434 PHRI: T-217

SITE TYPE: Complex (4 Features)

TOPOGRAPHY: The terrain consists of aa flows surrounding the complex area with large mounds of aa and large aa boulders.

VEGETATION: Christmas-berry, laua'e fern, air plant, lantana, and koa-haole.

ELEVATION: c. 552 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 46.40 m at 170 degrees Az. by 18.0 m. The site consists of three circular faced mounds (Features A, B and D) and a pahoehoe excavation (Feature C).

FEATURE A: Faced Mound

FUNCTION: Agriculture

DIMENSIONS: 1.50 m by 1.30 m by 0.80 m

DESCRIPTION: It is constructed with a stacked and faced perimeter of pahoehoe boulders, two to three courses high. Cobbles are used as interior fill.

The northern quarter of the mound was disassembled in order to determine if subsurface features were present. The fill was determined to be undifferentiated cobbles, placed directly on an artificially built-up surface of aa pebbles and cobbles. This surface was penetrated and found to be 0.68 m thick, overlying a 0.02 m thick deposit of loamy soil with aa pebbles intermixed. A 0.10 m thick layer of coarse soil and disintegrating pahoehoe bedrock was beneath this soil/pebble layer. No portable remains or cultural deposits were observed. A sample of the soil was collected for further analysis (see subsurface findings).

FEATURE B: Faced mound

FUNCTION: Agriculture

DIMENSIONS: 1.00 m by 1.00 m by 0.70 m

DESCRIPTION: Feature B is located 8.00 m at 105 degrees Az. from Feature A. It is constructed with large pahoehoe boulders stacked two to three courses high in a circular fashion. Smaller cobbles are used as interior fill.

FEATURE C: Pahoehoe excavation

FUNCTION: Agriculture

DIMENSIONS: 4.40 m by 3.10 m by 0.35 m

DESCRIPTION: Oval shaped in plan, it contains aa cobbles on the floor and in the surrounding area. Portions of the excavation look natural.

A mound is located 2.40 m north of the excavation. It measures 4.30 m by 3.8 m and 1.13 m in height. The mound is loosely constructed with large aa and some pahoehoe cobbles. The northern portion of the mound is collapsing.

FEATURE D: Faced mound

FUNCTION: Agriculture

DIMENSIONS: 1.20 m by 1.00 m by 0.69 m

DESCRIPTION: Circular shape in plan, it is constructed with aa boulders at the base and aa cobbles as interior fill. The mound is stacked three courses high.

SITE NO.: State: 13435 PHRI: T-218

SITE TYPE: Complex (10 Features)

TOPOGRAPHY: The terrain consists of gently sloping to irregular pahoehoe and aa flows.

VEGETATION: Lantana, Christmas-berry, agave, guava, koa-haole, kolu, grass, and numerous sisal plants.

ELEVATION: c. 580-600 feet

CONDITION: Good

INTEGRITY: Unaltered to possibly altered by road construction

PROBABLE AGE: Historic/possibly prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 147.90 m N-S by 36.00 m E-W. The site consists of seven enclosures (Features A-F and Feature J), a L-shape wall (Feature G), and modified outcrops (Features H and I). The enclosures are all built using a similar construction technique. Features A- F abut the retaining wall of the Site 13426 roadbed which defines either the east or west side of each enclosure. Some (or all) of these features appear to have been constructed after the roadway was built. There may be additional features in the area; vegetation is extremely thick.

The location of this site is very near the mapped location of a commercial sisal mill which operated during the late nineteenth and early twentieth centuries. The enclosures may be associated with this mill.

FEATURE A: Enclosure

FUNCTION: Agriculture

DIMENSIONS: 4.80 m by 3.80 m by 0.70 m

DESCRIPTION: This enclosure is east and adjacent to the old Palani Roadbed (Site 13426). The wall is constructed with loosely stacked boulders and cobbles, two to three courses high and two to three wide. Feature B is directly west on the other side of the roadbed. Inside the enclosure is a deposit of reddish brown silty loam mixed with aa pebbles.

FEATURE B: Enclosure

FUNCTION: Agriculture

DIMENSIONS: 16.50 m by 7.20 m by 1.70 m maximum height

DESCRIPTION: The enclosure is built abutting the west side of the old Palani Roadbed. It is keyhole shape in plan, with the narrow section at the southern end. This portion measures 5.20 m long by 2.20 m wide. The walls at the narrow end are 0.85 m high and 1.10 m wide. At the wider section, the enclosure is 7.20 m wide and 1.70 m high. At the northern end is another narrow section 7.00 m long. Near the center of the northern narrow section is an oval hole

with the perimeter outlined with boulders. The hole measures 2.50 m across by 1.20 m deep. The construction of all walls are loosely stacked. The roadbed retaining wall here is 1.70 m high. The enclosure walls here are intact up to and against the retaining wall.

FEATURE C: Enclosure

FUNCTION: Agriculture

DIMENSIONS: 24.00 m by 6.20 m by 1.40 m

DESCRIPTION: Feature C also abuts the western side of the old roadbed, and is immediately south of Feature B. It is similar in plan to Feature B, with minor variation. There is a wide central section and narrow extensions to the north and south. The extensions are 5.00 m long, 1.20 m wide with 1.00 m wide walls. At the northern end of the northern extension is an area of rock fill, which extends nearly to the edge of Feature B. The wall is open at the south end, with a c. 1.00 m wide gap between the end of the wall and the roadbed retaining wall.

The main section of the enclosure is 14.00 m long, 6.20 m wide and averages 1.40 m high. The wall in this section includes some massive boulders, and wall width is up to 2.38 m in places. The interior surface of the enclosure is 2.00 m below the level of the roadbed.

FEATURE D: Enclosure

FUNCTION: Agriculture

DIMENSIONS: 9.50 m by 2.40 m by 1.30 m

DESCRIPTION: Feature D is located 20.00 m south of Feature C, along the west side of the old Palani Roadbed. It consists of a sectioned enclosure that connects with a larger enclosure (Feature E) immediately to the south. The northernmost section is 4.50 m long and 2.40 m wide, with an average wall width of 0.60 m, and an exterior wall height of 0.90 m. The south section is 5.00 m long and 1.80 m wide with an interior wall height of 1.30 m. the northern end of the enclosure is intact up to and against the roadbed retaining wall; the south end is open. The area between the Feature D and E enclosures is filled with cobbles and boulders, as is the opening in the enclosure D wall.

FEATURE E: Enclosure

FUNCTION: Agriculture

DIMENSIONS: 11.30 m by 7.10 m by 0.70 m

DESCRIPTION: Feature E abuts the west side of the old roadbed, and is situated between Features D and F. Overall shape of the enclosure is keyhole, with a narrow extension to the south side. This enclosure wall is double faced and core filled, unlike Features A-D. It is built with aa boulders and cobbles, and the wall averages 2.50 m wide and 0.70 m high. The interior is divided into two sections by a low wall,

0.40 m high, that is oriented perpendicular to the old roadbed. The narrow extension of this feature is joined to a similar narrow extension of Feature F to the south by a 2.20 m wide area of rock fill. The filled area is flat and ramp-like, and slopes downhill from the roadbed surface, permitting access from the road to both Features E and F. One broken green bottle base (c. 1920- 1940) was observed on the roadbed near the ramp.

FEATURE F: Enclosure**FUNCTION:** Agriculture**DIMENSIONS:** 12.40 m by 6.65 m by 1.20 m

DESCRIPTION: Generally keyhole shape in plan, it is located 5.00 m north from the shoulder rip-rap of the existing Palani Highway, and abuts the old Palani Roadbed. The walls are constructed with stacked boulders and cobbles five courses high, and 0.75 m wide.

FEATURE G: L-shape wall**FUNCTION:** Agriculture (probably recent)**DIMENSIONS:** 2.80 m by 1.77 m by 1.20 m

DESCRIPTION: Feature G is c. 8.00 m east of the old Palani Roadbed and is probably not functionally related to the enclosure features built along the road. The wall is loosely stacked along perimeter the of a pahoehoe outcrop, abutting high areas of pahoehoe and forming a small enclosed area. This enclosed area is 3.20 m (N-S) by 5.30 m (E-W). It is constructed with generally squarish blocks of pahoehoe, loosely stacked, with some sections along the interior faced.

A rock pile is located at the east end interior of the enclosed area. It is c. 1.45 m in diameter at the base, with a maximum height of c. 0.5 m at the center. The pile is haphazard with some cobbles scattered around the base.

A deposit of black loam resembling potting soil is present, and arrears to have been brought to the site. Several plastic plant bags (some containing soil), buckets, water containers and a gardening trowel were found in the immediate area.

FEATURE H: Modified outcrop**FUNCTION:** Agriculture**DIMENSIONS:** 4.50 m by 2.50 m by 2.29 m

DESCRIPTION: Feature H consists of cleared aa under a natural overhang with a loosely stacked wall. The cleared area is 0.450 m deep from the ground surface. Aa boulders and cobbles have been cleared away and piled to the south in a crude wall- like formation abutting the natural outcrop face. The wall measures 2.40 m (NE-SW) by 1.60 m. The west side is faced two to four courses with a maximum height of 0.70 m. A tin can was found inside the cleared

area. This feature is adjacent to the east side of the old roadbed, across from Feature C.

FEATURE I: Modified outcrop**FUNCTION:** Quarry/possible agriculture**DIMENSIONS:** 3.50 m by 2.10 m by 1.20 m

DESCRIPTION: This modified outcrop is immediately adjacent to the east side of the old Palani Roadbed, between Features A and H. It appears to be a quarry site, possibly used during construction of the roadbed. Chunks of rough pahoehoe and aa are cleared out along face of an outcrop. A small overhang occurs along the south and east sides of the clearing with a crawlspace underneath the overhang. The crawlspace has a floor of aa pebbles. A pile of cobbles and boulders are against the interior north side of the clearing. Other boulders are loosely stacked in a linear pile along the exterior northern perimeter of the clearing. In addition there is a rock pile inside of the clearing that measures 1.06 m (E-W) by 1.20 m (N-S) and 0.30 m in height. Approximately 12 rusted tin cans, a broken food jar and a tobacco can are scattered in the feature.

FEATURE J: Enclosure**FUNCTION:** Agriculture**DIMENSIONS:** 8.90 m by 7.00 m by 1.57 m

DESCRIPTION: Feature J is 2.50 m north from Feature A, on the east side of the old Palani Roadbed. The enclosure is roughly C-shape in plan with the major axis oriented N-S. The walls are constructed with large stacked boulders and average 1.20 m in width. Wall height varies from 1.57 m along the northeast side to 0.85 m along the west side. The northeast portion of the wall (4.90 m long) connects to the entrance of a 3.71 m wide overhang. Ceiling height in the shallow overhang is 1.61 m. Extending east is an overhang ceiling which is 1.61 m. There is a shelf inside of the overhang which is 0.39 m in height and 0.64 m in length and filled with basalt gravels. A 0.10 m thick deposit of brown silty loam is present; no portable remains were observed.

SITE NO.: State: 13436 PHRI: T-219**SITE TYPE:** Wall**TOPOGRAPHY:** Irregular pahoehoe with a relatively steep slope.**VEGETATION:** Sisal, Christmas-berry, guava, koa-haole, lantana, and various grasses.**ELEVATION:** c. 605 feet**CONDITION:** Poor-fair**INTEGRITY:** Unaltered except by roadway construction**PROBABLE AGE:** Prehistoric**FUNCTIONAL INTERPRETATION:** Land division**DIMENSIONS:** 134.80 m by 1.30 m by 0.60 m**DESCRIPTION:** This site is a bifaced and core filled wall.

It is constructed with stacked boulders, one to six high, and cobble filled. The height varies from 0.30 m to 1.30 m, and width averages 0.60 m. Both ends of the wall have been terminated at the shoulder of the existing Palani Highway. The road is oriented generally NE-SW and roughly parallels the old Palani Roadbed, located c. 12.00 m to the east. There are four minor angles (20-40 degrees) along the length of the wall. Pahoehoe excavations occur c. 2.0-3.0 m to the east of the wall and may be a probable source for building material.

SITE NO.: State: 13437 PHRI: T-220

SITE TYPE: Complex (7 Features)

TOPOGRAPHY: Undulating pahoehoe and aa surface f
lows.

VEGETATION: Christmas-berry, lantana, air plants, and
laua'e.

ELEVATION: c. 515-518 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture-marker

DESCRIPTION: The overall complex area measures 56.40 m at 330 degrees Az. by 24.00 m. The site consists of a stepped terrace (Feature A), a pavement (Feature B), a faced outcrop (Feature C), a terrace (Feature D), and three cairns (Features E-G).

FEATURE A: Stepped terrace

FUNCTION: Agriculture

DIMENSIONS: 45.90 m by 13.58 m by 1.48 m

DESCRIPTION: The terrace is oriented NW-SE. It begins as a single stacked wall and then it proceeds to five courses then seven courses high. The stepped terrace is constructed with pahoehoe and aa boulders and cobbles and paved with angular aa gravel. Portions of the retaining wall are stacked and portions are collapsed.

The northernmost and upper terrace measures 45.90 m by 4.20 m. The retaining wall is raised on the south side and is stacked three to six courses high for a maximum height of 0.94 m. The lower and southernmost terrace measures 34.20 m by 9.30 m. It is stacked six courses high, and is 1.10 m in height, where it joins with the upper terrace.

FEATURE B: Pavement

FUNCTION: Agriculture

DIMENSIONS: 7.80 m by 3.80 m by 1.50 m

DESCRIPTION: This pavement is east of and adjacent to Feature A. It is constructed with rough cobbles and outlined with aa cobbles that are stacked in places. North and adjacent to the paved area is a depression bordered on three sides by the built-up area and on the fourth side by a rock

ledge. The depression measures 5.00 m by 3.00 m and is 1.80 m deep. The base of the depression is cleared and has a 0.02 m thick soil deposit that covers an area 2.80 m by 0.90 m.

FEATURE C: Faced outcrop

FUNCTION: Agriculture

DIMENSIONS: 2.50 m by 0.00 m by 1.00 m

DESCRIPTION: Feature C is 22.00 m south and 5.70 m east of Feature A. It consists of a natural ledge that has been stacked with aa boulders and cobbles to form a crude retaining wall. In areas along the natural ledge occasional cobbles can be found placed along the top edge.

FEATURE D: Terrace

FUNCTION: Agriculture

DIMENSIONS: 14.00 m by 10.00 m by 0.80 m

DESCRIPTION: This terrace is in the immediate vicinity of Features A and B. Large pahoehoe boulders are stacked two to three courses high around the perimeter, with smaller pahoehoe cobbles filling the interior. This terrace is roughly L-shaped with the major axis oriented E-W, and the extension to the south at the east end. The extension is 4.00 m N-S and 3.50 m E-W. On the west end of the terrace is a small circular platform, constructed on the edge and on top of the perimeter wall. It is 0.70 m in diameter and two courses (0.38 m) high. A 0.08-0.10 m thick deposit of sandy loam is present on the terrace.

FEATURE E: Cairn **FUNCTION:** Marker

DIMENSIONS: 0.85 m by 0.85 m by 0.65

DESCRIPTION: This cairn is the westernmost of an alignment of three cairns (with F and G). It is 10.00 m south from the west end of Feature D. It is circular at the base and constructed with aa boulders and cobbles with three courses of single pahoehoe cobbles on top. To the north of the cairn alignment is a linear rock mound that extends 11.50 m at 100 degrees Az.

FEATURE F: Cairn

FUNCTION: Marker

DIMENSIONS: 0.85 m by 0.85 m by 0.70 m

DESCRIPTION: Circular at the base and constructed with aa boulders and cobbles with three courses of single pahoehoe cobbles on top. Feature F is the center cairn. Feature E and Feature G are in line at 100 degrees Az. and are on either side of Feature F, which is 4.20 m from Feature E and 3.80 m from Feature G.

FEATURE G: Cairn

FUNCTION: Marker

DIMENSIONS: 0.90 m by 0.90 m by 0.85 m

DESCRIPTION: Circular at the base and constructed with aa boulders and cobbles with three courses of single pahoehoe cobbles on top. Feature G is the easternmost cairn.

SITE NO.: State: 13438 PHRI: T-221

SITE TYPE: Complex (10 Features)

TOPOGRAPHY: Aa flows with some pahoehoe.

VEGETATION: Christmas-berry, lantana, air plant, ferns, grass, and noni.

ELEVATION: c. 529 feet

CONDITION: Poor-good

INTEGRITY: Unaltered

PROBABLE AGE: Historic/Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture-transportation

DESCRIPTION: Overall complex area measures 200.0 m (N-S) by 40.0 m (E-W). The site consists of four terraces (Feature A, Features C and D and Feature F), two mounds (Features B and I), three terraces (Features C, D and Feature F), a pahoehoe excavation (Feature E), a trail (Feature G), a roadbed (Feature H) and a cairn (Feature J).

FEATURE A: Terrace

FUNCTION: Agriculture

DIMENSIONS: 5.10 m by 5.00 m by 0.50 m

DESCRIPTION: The terrace wall is built with stacked aa cobbles and the surface interior is paved with aa gravels. The terrace boundary is distinguished by large cobbles and boulders to the north and the south and by a downward slope to the east. In addition, there is an oval shaped, cleared aa depression west and adjacent to the terrace wall.

FEATURE B: Mound

FUNCTION: Agriculture

DIMENSIONS: 2.50 m by 2.40 m by 0.70 m

DESCRIPTION: This mound is 5.00 m north from Feature A. It is built with a loosely stacked perimeter of aa cobbles and filled with gravel and a few cobbles.

FEATURE C: Terrace

FUNCTION: Agriculture

DIMENSIONS: 7.50 m by 2.30 m by 0.65 m

DESCRIPTION: The terrace is 14.80 m west from Feature B. It is roughly rectangular shape, and raised on the southwest side. The riser wall is constructed with stacked aa boulders and cobbles and the terrace surface is paved with cobbles and gravels. It is collapsing at the southeast end where collapse extends 1.80 m to the exterior of the terrace wall.

Immediately to the northeast of the terrace are two cleared depressions in the natural aa flow. The largest of

these is at the northern edge of the terrace; it is 3.90 by 2.20 m and 1.05 m deep. The second depression is 2.00 m to the south. It is 2.90 by 1.60 m and 0.75 m deep.

FEATURE D: Terrace

FUNCTION: Agriculture

DIMENSIONS: 5.00 m by 4.00 m by 0.20 m

DESCRIPTION: Feature D is in the immediate vicinity of Feature C. It is an oval shaped terrace with a perimeter of large aa cobbles, and is filled with aa gravels. The surface is level and flat. The perimeter may have been stacked at one time, but it is presently collapsed.

FEATURE E: Pahoehoe excavation

FUNCTION: Agriculture

DIMENSIONS: 4.70 m by 2.00 m by 0.90 m

DESCRIPTION: An excavated pahoehoe ledge with stacked angular pahoehoe boulders and cobbles on top of the ledge. Smaller cobbles cover the interior. On the eastern ledge of this feature is a rock mound that measures 1.20 m by 1.00 m by 0.40 m high. Large pahoehoe boulders are at the base with smaller cobbles on top, two to three courses high.

FEATURE F: Terrace

FUNCTION: Agriculture

DIMENSIONS: 8.40 m by 3.30 m by 1.20 m

DESCRIPTION: This terrace is adjacent to Features C and D, and the east end abuts the retaining wall of the old Palani Roadbed (Feature H). The terrace is roughly crescent shape in plan and constructed with a perimeter of large aa boulders stacked two to three courses high. It is filled with aa gravel.

FEATURE G: Trail

FUNCTION: Transportation

DIMENSIONS: 50.00 m by 1.20 m

DESCRIPTION: The trail section is oriented northwest and west from the Feature F terrace. It has a flattened, packed surface of aa gravel and a perimeter of larger aa cobbles. The trail alignment is nonlinear.

FEATURE H: Roadbed

FUNCTION: Transportation

DIMENSIONS: 200.00 m by 4.30 m by 2.00 m

DESCRIPTION: This feature is an abandoned section of Palani Road. It is identical in construction to the section described above (SIHP Site 13426). The south end of this section is at the shoulder riprap of the existing Palani Highway alignment. The north end is terminated at Site 13434.

FEATURE I: Mound

FUNCTION: Indeterminate

DIMENSIONS: 7.30 m by 2.00 m by 1.00 m
DESCRIPTION: The rock mound is located 10.00 m west from Feature E. It is generally linear in plan and constructed with boulders from an adjacent pahoehoe flow. Height varies from 0.50 to 1.00 m. A somewhat discrete rock concentration occurs at the southeast end of this linear mound. The concentration is 1.20 m by 0.90 m and is two courses high.

FEATURE J: Cairn
FUNCTION: Indeterminate
DIMENSIONS: 0.60 m by 0.55 m by 0.70 m
DESCRIPTION: Feature J is situated 8.0 m west of Feature E. It is built with two stacked pahoehoe boulders. The top boulder is slightly smaller than the boulder base.

SITE NO.: State: 13439 PHRI: T-222
SITE TYPE: Cairn
TOPOGRAPHY: The terrain consists of aa and pahoehoe flows.
VEGETATION: Christmas-berry, air plants, and grass.
ELEVATION: c. 555 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Indeterminate marker
DIMENSIONS: 1.15 m by 1.00 m by 1.00 m
DESCRIPTION: The cairn is constructed with stacked aa cobbles.

SITE NO.: State: 13440 PHRI: T-223
SITE TYPE: Complex (3 Features)
TOPOGRAPHY: Irregular and undulating terrain consisting of aa and pahoehoe flows.
VEGETATION: Christmas-berry, koa-haole, lantana, and fountain grass.
ELEVATION: c. 506 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric-early historic
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The overall complex area measures 23.0 m at 330 degrees Az. by 13.20 m. The site consists of a terrace (Feature A), a filled crevice (Feature B) and a pahoehoe excavation (Feature C).

FEATURE A: Terrace
FUNCTION: Agriculture
DIMENSIONS: 4.20 m by 3.40 m by 0.00 m
DESCRIPTION: A terrace built up on the edge of a pahoehoe outcrop with pahoehoe boulders and cobbles.

FEATURE B: Filled crevice
FUNCTION: Agriculture
DIMENSIONS: 3.40 m by 1.60 m by 0.00 m
DESCRIPTION: Feature B is located 5.60 m northwest from Feature A. The crevice is filled with pahoehoe boulders and cobbles.

FEATURE C: Pahoehoe excavation
FUNCTION: Agriculture
DIMENSIONS: 13.20 m by 2.60 m by 0.00 m
DESCRIPTION: Located 16.20 m northwest from Feature A. Pahoehoe cobbles and gravels are haphazardly strewn in a concave area along a pahoehoe flow edge. In the southwest end of the feature is a circle of pahoehoe boulders on the north flow edge measuring 1.90 m (N-S) by 1.20 m (E-W). A loam deposit is present 1.00 m north; it covers an area 2.50 by 1.2 m (N-S).

SITE NO.: State: 13441 PHRI: T-224 (*Figure A-42*)
SITE TYPE: Complex (20+ Features)
TOPOGRAPHY: Undulating pahoehoe with some natural disturbance.
VEGETATION: Thick Christmas-berry, lantana, kolu, koa-haole, and fountain grass.
ELEVATION: c. 470-480 feet
CONDITION: Poor-good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture-habitation
DESCRIPTION: The overall complex area measures c. 108.0 m (E-W) by 88.0 m (N-S). The site consists of 20 principal features and additional modified outcrops and pahoehoe excavations. The principal features include seven platforms (Features A, C, D, J, K, N and O), five terraces (Feature B and Features E-H), a wall remnant (Feature I), a wall (Feature L), a mound (Feature M), a cave (Feature P) and an enclosure (Feature Q). The Feature Q enclosure surrounds the complex. The site is very unique in its containment and high concentration of highly structured features.

FEATURE A: Platform
FUNCTION: Habitation/agriculture
DIMENSIONS: 12.00 m by 7.70 m by 0.90 m
DESCRIPTION: Feature A is a platform constructed of stacked and faced basalt blocks and surfaced with ai pebble pavement. It is in fairly good condition and is situated immediately west of Feature B. There appears to be a single posthole in the northwest corner of the platform, formed by four basalt blocks. The possible posthole measures 0.36x0.32x0.50 m.

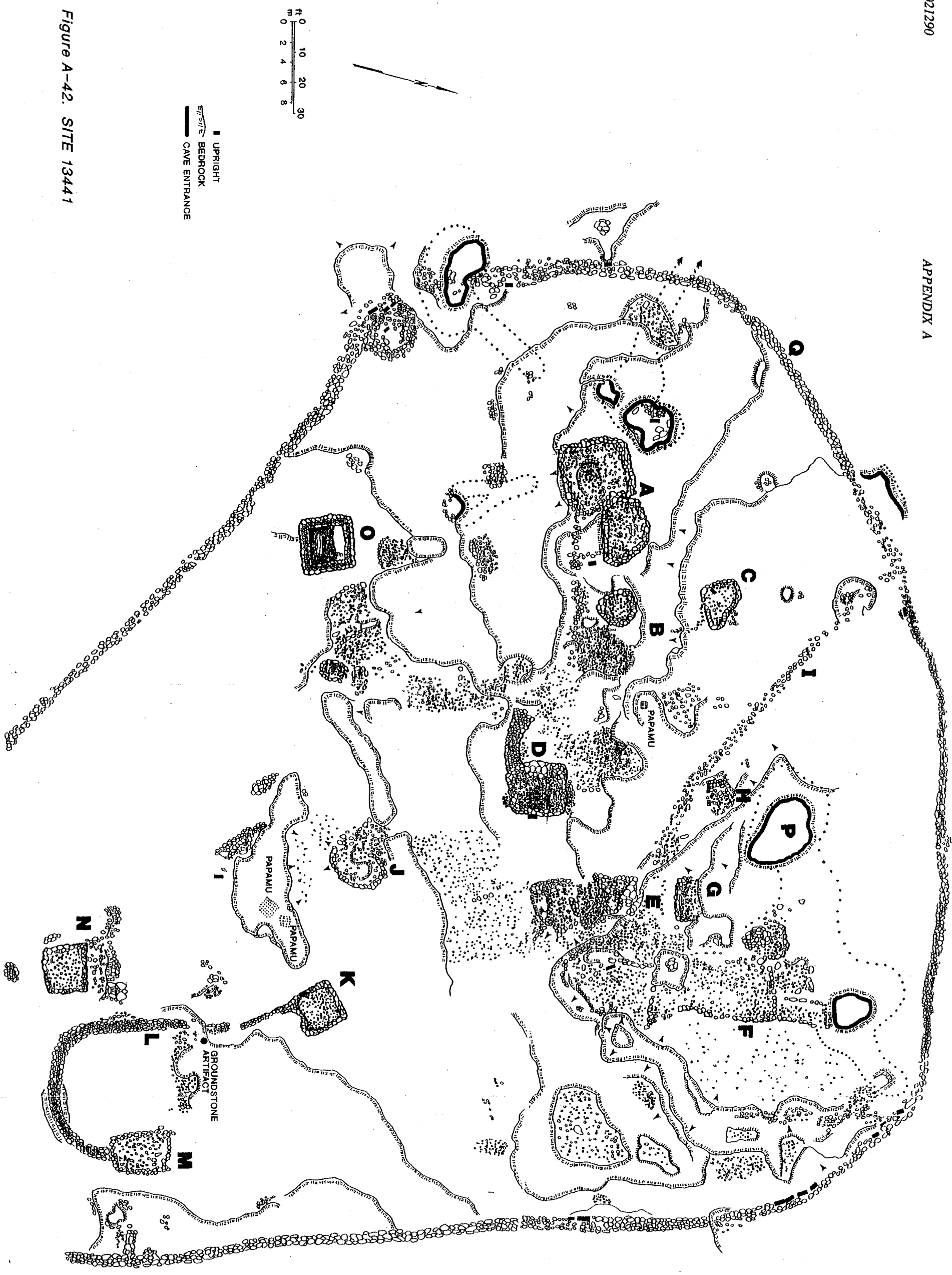


Figure A-42. SITE 13441

The platform adjoins and is roughly level with a pahoehoe outcrop. One upright basalt is located 2.00 m from the western edge of the platform, roughly in the center of the N-S axis. There is a possible papamu present on the pahoehoe outcrop at the eastern edge of the platform.

FEATURE B: Terrace

FUNCTION: Agriculture

DIMENSIONS: 5.10 m by 3.90 m by 0.40 m

DESCRIPTION: The terrace is constructed with basalt blocks ranging in size from pebbles to large boulders. They are in a pile that measures 5.1 m (E-W) by 3.9 m (N-S).

To the east and southeast of the pile, is a pavement that measures 5.60 m (N-S) by 4.80 m (E-W). The pavement consists of generally fist sized basalt rocks with some boulders (measuring c. 0.3 m) and one large basalt block, which is 0.76 m by 0.56 m by 0.22 m. At the south edge of the pavement, extending west, is an alignment (possible collapsed wall) of basalt blocks constructed with a maximum of two courses. The blocks range in length from less than 0.10 m to 0.75 m by 0.42 m by 0.19 m. The alignment measures 3.62 m (NE-SW) with a maximum height of 0.4 m.

FEATURE C: Platform (Figure A-43)

FUNCTION: Agriculture

DIMENSIONS: 10.0 m by 6.0 m by 0.54 m

DESCRIPTION: This low, D-shaped platform is constructed with large basalt cobbles that are loosely stacked along the sides, and is filled with gravel to boulder size basalt ranging in size from less than 0.05 m in diameter to 0.34 by 0.30 m by 0.21 m. The surface is irregularly paved with scattered pebbles.

A 1.00 by 1.00 m square test unit was excavated in the center of the feature, in order to better determine its function. The paving was found to consist of only one layer of pebbles, overlying a cobble fill that had pebbles intermixed. The fill layer in the test unit was 0.56 m thick, and rested on a 0.10 m thick layer of pebbles and soil intermixed. The pebble/soil layer was directly on pahoehoe bedrock. A single kukui nut in three fragments was located in the soil layer. No other portable remains or cultural deposits were observed. A sample of the soil was collected for further analysis.

FEATURE D: Platform

FUNCTION: Habitation

DIMENSIONS: 6.50 m by 5.40 m by 1.11 m

DESCRIPTION: The platform perimeters consist of large basalt blocks that are stacked and faced up to six courses

high. The interior is filled with boulders and cobbles. The platform surface is level; the western portion of covered with a single layer of closely fitted pahoehoe slabs. The eastern portion is paved with pebble-size pieces of pahoehoe. There are two both subsurface features resembling post holes in the platform. These are aligned along the boundary of the slab and pebble pavements. A small step-like protrusion is exterior to the south wall; it is 0.50 m high.

In addition, a low linear ramp-like platform projects westward from the southwest corner of the platform. Its dimensions are 6.20 m (E-W) by 3.40 m (N-S). It may be a partially collapsed ramp or stepped entrance path.

FEATURE E: Terrace (4)

FUNCTION: Agriculture

DIMENSIONS: 18.00 m by 14.00 m by 1.90 m

DESCRIPTION: Feature E consists of four terraces on a south facing slope of a hill, just below the crown of the hill. All terraces are raised along the south side. Below the terraces to the south and west is an unbordered pavement which covers an area 10.00 m (N-S) by 14.00 m (E-W). The first terrace above the pavement measures 5.00 m (N-S) by 10.00 m (E-W); the second terrace above the pavement measures 4.00 m (N-S) by 8.00 m (E-W); the third terrace above the pavement measures 4.50 m (N-S) by 9.00 m (E-W). Large and small basalt blocks are used to construct the retaining walls. Some sections are collapsed and slope into each other.

Portions of the terraces incorporate natural pahoehoe outcrops. Other sections require the construction of up to six courses of basalt blocks to roughly level the terrace in relation to the outcrop. The lowest terrace is somewhat informal as compared with the upper levels. The west side of the lower terrace ends 2.00 m east of Feature D.

FEATURE F: Terrace

FUNCTION: Agriculture

DIMENSIONS: 29.00 m by 7.00 m by 1.00 m

DESCRIPTION: The long axis of Feature F is oriented NW-SE along the northeast crown of the hill, upslope from Feature E. It is raised on the east side and slightly raised on the south side. Basalt blocks are used to construct the retaining wall, which is a maximum of six courses stacked and faced. The retaining wall edge is constructed of basalt blocks as large as 1.00 x 0.70 x 0.30 m. The interior is filled with small basalt blocks and pebbles.

FEATURE G: Terrace

FUNCTION: Agriculture

DIMENSIONS: 3.30 m by 2.90 m by 0.55 m

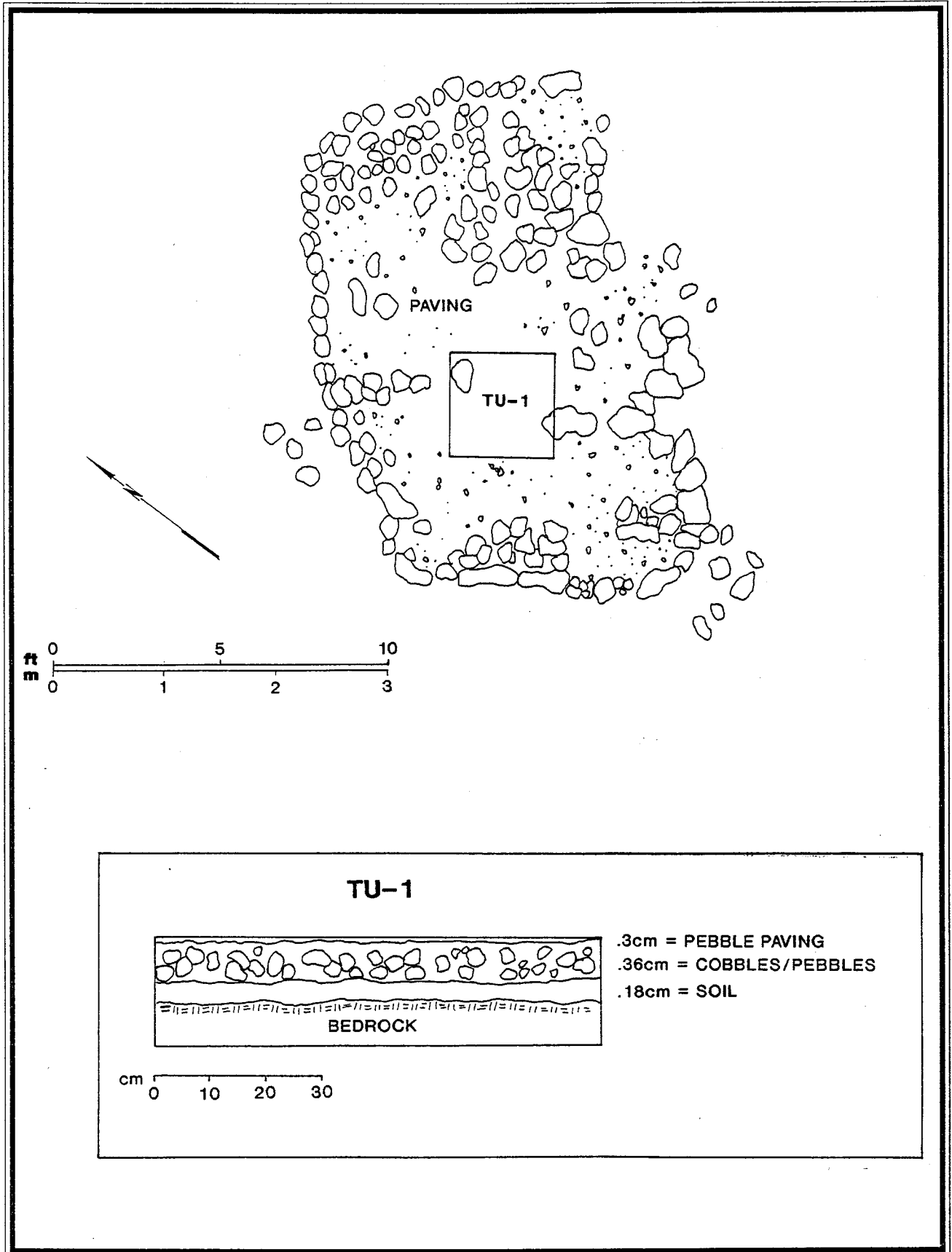


Figure A-43. SITE 13441, FEATURE C

Situated on the south facing slope near the crown of the hill, it is raised on one side. The retaining wall consists of a maximum of three courses of basalt blocks, and filled with small basalt blocks and pebbles. The feature abuts a pahoehoe outcrop to the north.

FEATURE H: Terrace**FUNCTION:** Agriculture**DIMENSIONS:** 4.00 m by 3.50 m by 1.50 m

DESCRIPTION: Feature H is raised on three sides and constructed with basalt blocks stacked and faced to a maximum of four courses high. It is partially collapsed in sections. Most of the basalt blocks are large, with the largest measuring 0.80 x 0.50 x 0.30 m. The interior consists of large medium and small basalt blocks and slabs.

FEATURE I: Wall remnant**FUNCTION:** Indeterminate**DIMENSIONS:** 25.00 m by 1.00 m by 0.50 m

DESCRIPTION: Feature I is constructed with medium to large basalt blocks and with eight upright slabs. It is mostly collapsed except for the upright basalt slabs and a small section near Feature H. The wall is oriented NW-SE, and the northwest end is at the complex enclosure wall (Feature Q).

FEATURE J: Platform**FUNCTION:** Habitation/agriculture**DIMENSIONS:** 6.60 m by 5.40 m by 0.70 m

DESCRIPTION: Raised on four sides it appears to be bilevel with a smaller and higher portion on the north side. It is constructed with basalt blocks and slabs. The higher portion has a small paved area measuring 2.90 m (E-W) by 1.90 m (N-S). A pahoehoe outcrop forms part of the higher area. The structure is not presently faced.

FEATURE K: Platform (Figure A-44)**FUNCTION:** Habitation/agriculture**DIMENSIONS:** 5.25 m by 4.70 m by 0.95 m

DESCRIPTION: The platform is raised on four sides with portions faced on the northwest and southwest sides. The sides are generally six courses high. The interior of the structure is filled with medium to small blocks and pebble sized basalts. There is a small shallow depression near the center of the platform that measures 1.60 m (E-W) by 1.20 m (N-S).

A 1.00 by 1.00 m sq test unit was excavated into the depression, in order to better determine feature function, and to determine if subsurface features, such as human interments, were present. A concentration of 6-7 small kiawe trees were growing in the depression, at the time of

excavation. The uppermost layer encountered consisted of a humus/duff soil layer intermixed with small cobbles and pebbles. This layer varied in thickness from 0.29 to 0.35 m. Beneath Layer I in the southeast quarter of the unit was a dark grayish brown silty loam which was 0.06 m thick. In the remainder of the unit, Layer I continued to the bedrock surface, encountered 0.35 m below surface. No portable remains or cultural deposits were encountered in the unit. A soil sample was collected for further analysis (see subsurface findings).

FEATURE L: Wall**FUNCTION:** Indeterminate**DIMENSIONS:** 34.00 m by 0.80 m by 0.90

DESCRIPTION: The wall adjoins Feature K at its north corner and proceeds at an angle of 140 degrees Az. for 5.00 m, where there is a 2.00 m break. It continues again for 12.00 m and turns to 360 degrees Az. for 5.0 m and joins the southwest corner of Feature M. Basalt blocks and slabs ranging from pebble to large blocks are used in the construction of Feature L. The wall width ranges from 0.90 to 2.00 m. Some portions of the wall are collapsed and it does not appear to have been entirely faced.

FEATURE M: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 5.30 m by 3.20 m by 0.65 m

DESCRIPTION: Feature M is connected to Feature L near the south corner. It is an unfaced rubble mound with no distinct coursing. The mound is constructed with basalt gravel to medium size basalt blocks. The highest portion is near the north edge where several large blocks sit atop the rubble. Otherwise, the center would be the highest point with the mound gradually tapering to ground level along all sides.

FEATURE N: Platform**FUNCTION:** Habitation/agriculture**DIMENSIONS:** 7.10 m by 4.40 m by 0.85 m

DESCRIPTION: Feature N is raised on four sides with stacked basalt blocks ranging in size from 0.52 x 0.50 x 0.20 m to less than 0.10 m in diameter. A portion of the southwest side is faced, the southeast side is coursed with a maximum of two courses evident, and the northwest and the northeast sides are collapsed. The interior is filled with pebbles to medium sized basalt blocks. A depression is present in the northeast quad of the platform surface. It is 0.30-0.40 m deep and measures 2.00 by 2.00 m.

FEATURE O: Platform (Figure A-45)**FUNCTION:** Agriculture**DIMENSIONS:** 5.90 m by 4.50 m by 1.05 m

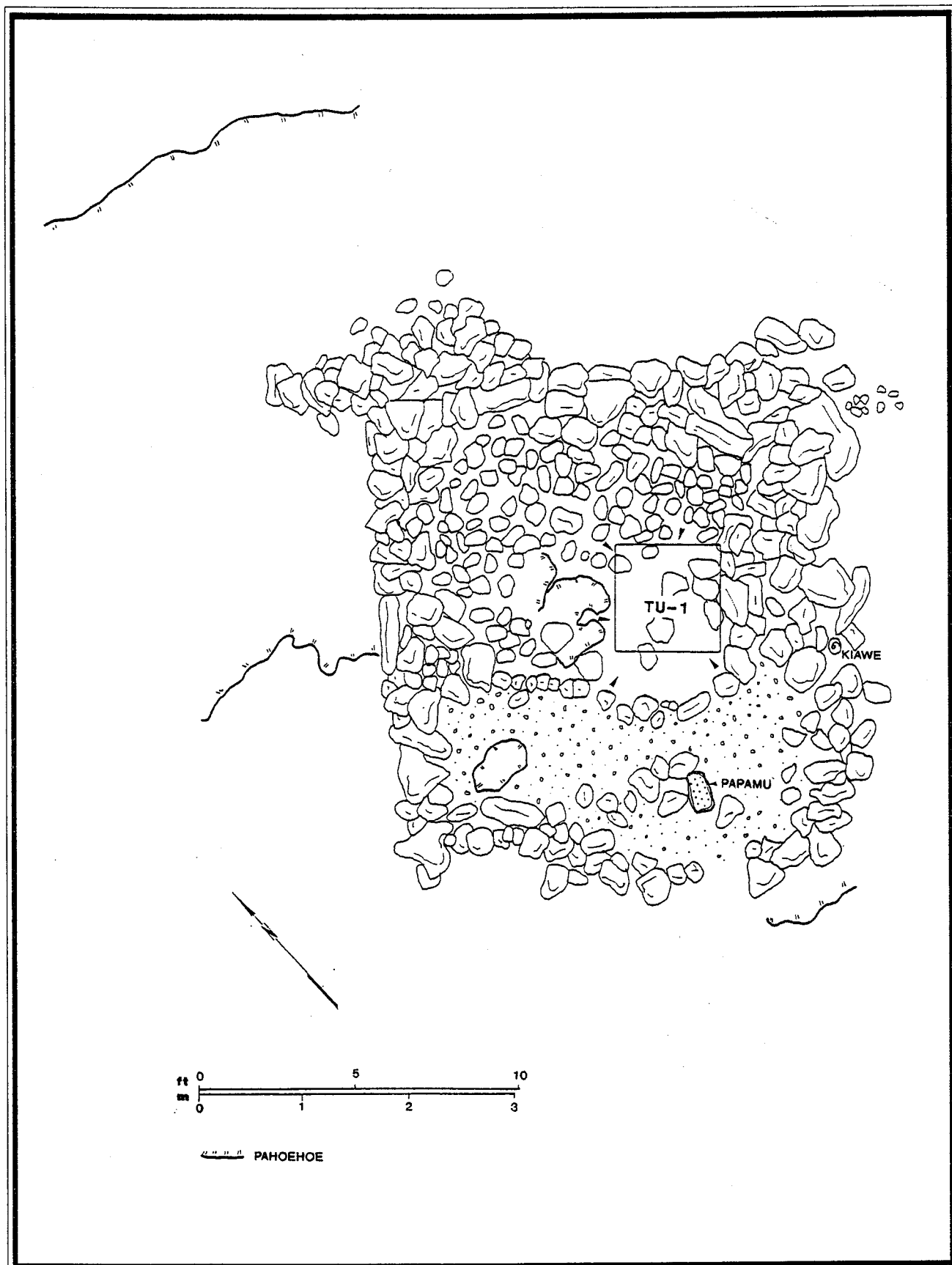


Figure A-44. SITE 13441, FEATURE K

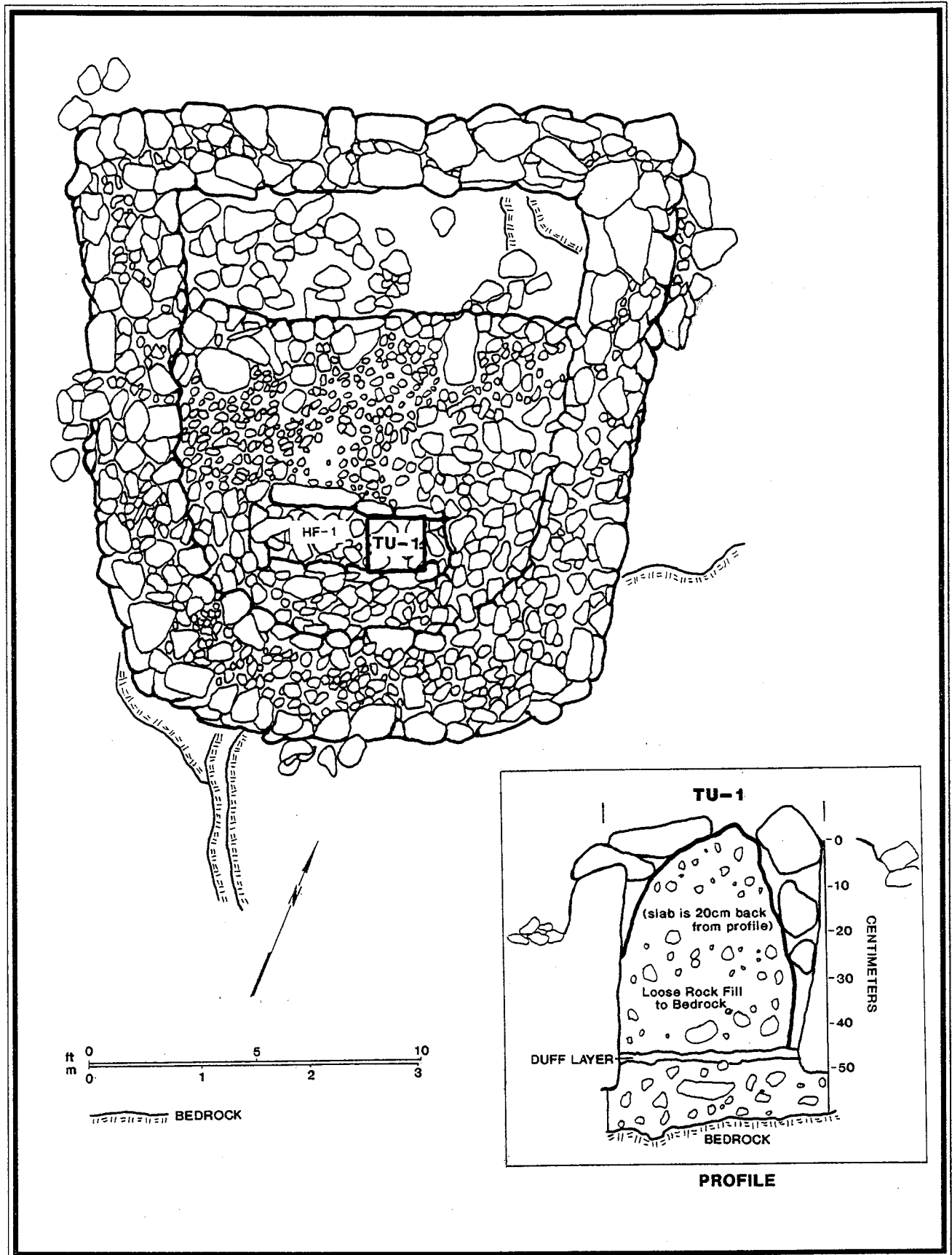


Figure A-45 SITE 13441, FEATURE O

Square to rectangular shape in plan it is constructed with pahoehoe slabs and blocks, many of which appear to be quarried. The perimeter wall is double faced along the north half, where both sides are visible. Several large slabs are set on side or upright along the interior and exterior of the wall. The wall is core-filled with cobble size pieces and covered with slabs along portions. Average wall width is 0.70 m.

The interior of the perimeter wall is partially filled with slabs and cobbles to form the platform. The north portion inside of the wall is left open with the original ground surface visible. A slab-lined, rectangular pit (1.25 by 0.45-0.63 m by 0.50 m deep) is present near south end of the platform. The pit walls are vertical, and formed with single large slabs on the sides. The pit measures resembles a open burial crypt. Some collapse has fallen into the pit.

The platform fill at the south end is level with the top of the perimeter wall, which has collapsed onto the platform surface in places. The south surface of the platform is sloping from the top of the wall toward the tops of the slab-lined pit liners. This is partially attributable to wall collapse to the interior. The fill surface steps down 0.30 m at 1.7 m from the north wall. The lower level platform is 0.90 m wide and extends across the interior area, from wall to wall. The open, unfilled area at the north end steps down 0.40 from the lower platform level. Pahoehoe with excavated face is present on the surface of the open area.

A 0.50 by 0.50 m square test unit was excavated into the center of the stone-lined pit, in order to determine if it contained a human interment. The pit was filled to the top of the liners with a loosely thrown-in layer of boulders and cobbles. This layer was 0.45 m thick and was set on an old duff (O Horizon) layer. None of the stones intruded into the level surface of the duff layer, which was a maximum of 0.02 m thick. A scatter of charcoal fragments was encountered on the duff layer surface. These fragments were collected for age determination analysis.

Beneath the duff was a deposit of loose, black loam with scattered pebbles, which directly overlaid the unbroken pahoehoe bedrock surface. This deposit was 0.07 to 0.16 m thick. A single Cypraeidae shell fragment and a kukui nut shell fragment were recovered from this layer.

FEATURE P: Cave

(Figure A-46)

FUNCTION: Habitation

DIMENSIONS: 29.00 m by 10.00 m by 2.20 m

DESCRIPTION: Feature P is located at the northern edge of the complex, just inside the enclosure wall. It is a long lava tube with three vertical entrances, located at the two ends and near the center, along the major axis (NE-SW).

The largest entrance is at the southwest end of the tube formation and consists of an oval collapse 9.00 by 5.80 m across. The interior, open area in the collapse is modified with leveled and filled areas, and arrangements of the roof collapse. There is a protected overhang area under the southwest rim of the opening. This area is 6.00 m wide, 2.00 m deep and has a ceiling height of 1.39 m at the dripline. A soil deposit is present in this overhang.

The cave is entered under the northeast rim of the collapsed blister. The entrance is 3.70 m wide and the ceiling is 1.43 m high. The tubular chamber opens to an average width of 5.00 m. The floor is cleared of rubble for a distance of 8.00 m from the entrance, and is covered with a soil/midden deposit containing charcoal, fire-cracked basalt, marine shell, kukui nut shell, and mammal bone (including feral goat). A small paved area occurs along the south wall in this chamber. The pavement is 2.50 m from the entrance, and is c. 1.50 m square.

The second cave entrance is 12.20 m northeast from the first entrance. It is a vertical opening in the top of the tube, 3.50 by 2.80 m across and 1.26 m ceiling height. A depression in the floor beneath the opening has been filled with wall collapse, an a quantity of the collapse has been arranged in a linear mound across the tube, to the southwest of the entrance. The tube is 5.00 m wide at this point.

From the second opening, the cave continues northeast 8.50 m and gradually becomes narrower, ending at a third opening. A rubble wall occurs in the southern side of the tube between the second and third opening. The wall is L-shaped, with the long axis 5.50 m and the short extension 1.50 m in length. Inside the third opening is a small square paved area (1.10 m square) and a deposit of soil. The tube is 2.80 m wide where the soil and paved area occur. Ceiling height in this area is 2.20 m.

A 1.00 by 1.00 m square test unit (TU-1) was excavated into the midden/soil deposit at the southwest end of the cave, 2.00 m in from the main entrance. The deposit here was found to be a maximum of 0.05 m thick. This homogenous fill was screened through 1/8" mesh. Marine shell fragments, charcoal, fish and mammal bone, and basalt gravels were recovered. A bulk sample for age determination analysis was also collected.

A 0.50 by 0.50 m square test unit (TU-2) was excavated into the soil deposit at the northeast end of the cave. The deposit here was found to be a maximum of 0.03 m thick and consist of sterile brown loam. A sample of the soil was collected for further analysis.

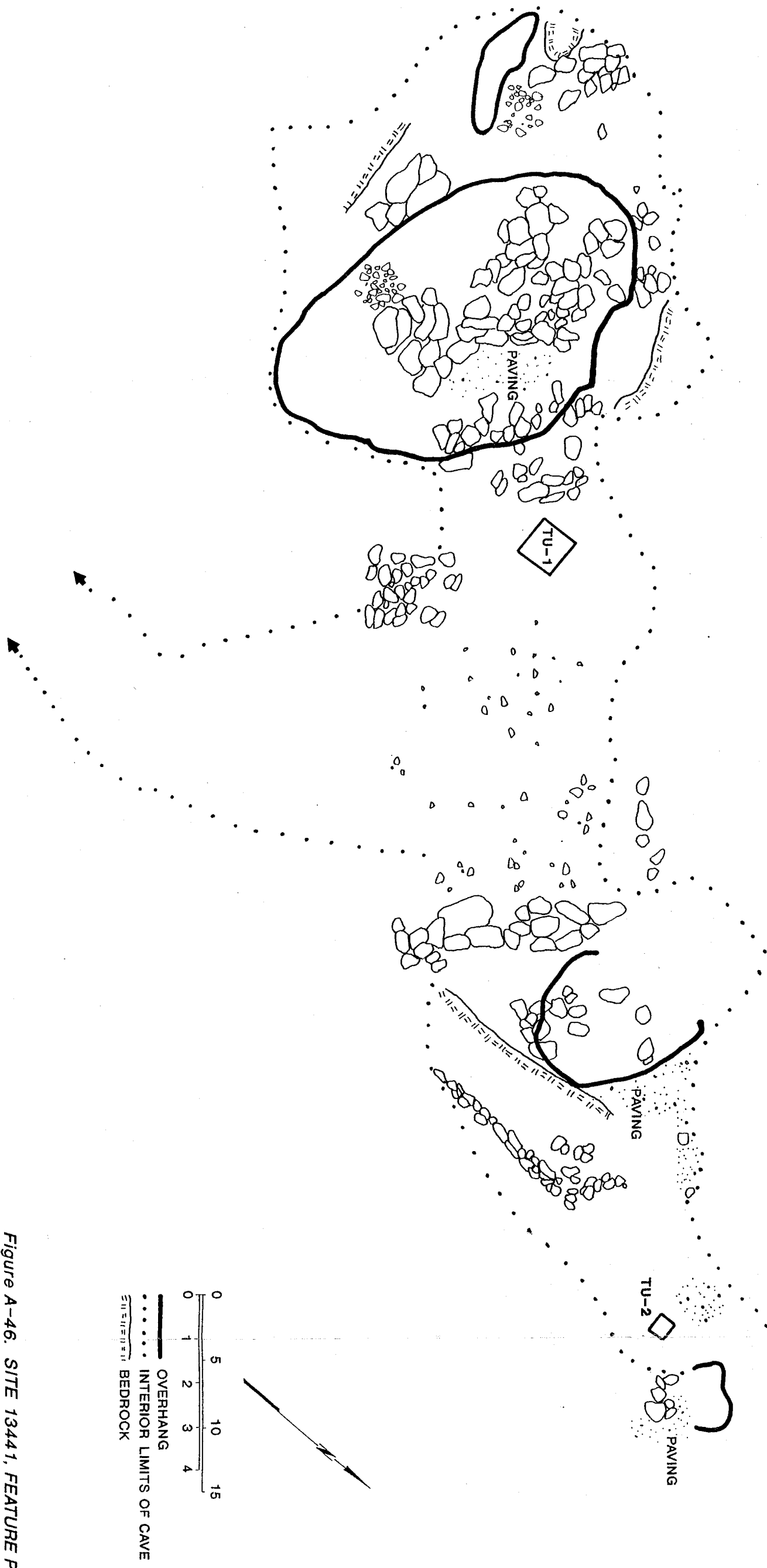


Figure A-46. SITE 13441, FEATURE P

FEATURE Q: Enclosure**FUNCTION:** Agriculture-habitation**DIMENSIONS:** 110.00 m by 94.00 m by 1.00 m

DESCRIPTION: The enclosure wall forms the perimeter around Site Complex 13441, Features A-P. The enclosure is roughly three sided in plan, but exhibits squared or angular corners. It follows and incorporates a few outcrops, mostly on the surface of the smooth pahoehoe. Most sections appear to have been originally double-faced and core filled. Nearly all portions have been knocked down and some stones removed.

The average wall width is 0.80 m and the height varies from 0.30 to 1.00 m. Large pahoehoe slabs are used for sides, many have been set upright and/or on sides. Some sections are single course of these large slabs, up to 1.00 m high. Portions of the enclosure wall with core fill present consist mostly of cobble size pieces of pahoehoe.

The wall has one obvious opening at the west end, near a small abutting enclosure and collapsed blister with cave. All other open areas are where the wall was knocked down or robbed of stones. The poor condition of this feature contrasts with generally very good condition of the other interior features.

It does appear to define the complex boundaries. However, a few pahoehoe excavations and agriculture mounds were observed outside, within a 10-15 m distance away from the wall. The construction with upright slabs is similar to the construction of several of the platform and terrace faces. There is no evidence suggesting where the robbed stones were taken, but many sections have both sides present, with the core fill missing.

No portable remains are in direct association with Feature Q; however, an adze, a waterworn basalt hammerstone, and scattered marine shell fragments were observed on the surface inside the enclosure.

SITE NO.: State: 13442 PHRI: T-225**SITE TYPE:** Alignment**ELEVATION:** c. 477 feet**FUNCTIONAL INTERPRETATION:** Indeterminate**SITE NO.:** State: 13443 PHRI: T-226**SITE TYPE:** Complex (16 Features)**TOPOGRAPHY:** Undulating pahoehoe with some natural disturbance**VEGETATION:** Thick Christmas-berry, lantana, and grasses.**ELEVATION:** c. 479 feet**CONDITION:** Good**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric-early historic**FUNCTIONAL INTERPRETATION:** Agriculture

DESCRIPTION: The overall complex area measures 36.00 m at 20 degrees Az. by 16.00 m. Features identified include twelve rock mounds, one linear mound, two cairns and an alignment. The mounds are unfaced and loosely stacked with no formal structure. Most are constructed on or abutting pahoehoe outcrops or around cleared areas. Shallow soil is present in low areas and under the pebble fill on outcrops.

A representative mound is situated at the northwest edge of the site. It is stacked against an outcrop in a semicircular plan. This mound measures 2.90 m by 1.85 m and it is 0.90 m high from the base on the south side. The north side is level with the ground surface. Approximately half of the observed mounds are larger than this specimen.

The linear mound is 10.00 m long and curves around a pahoehoe clearing. It has an average height of 0.40 m.

SITE NO.: State: 13444 PHRI: T-227**SITE TYPE:** Complex (5 Features)**TOPOGRAPHY:** Smooth and ropy pahoehoe fingerflows.**VEGETATION:** Christmas-berry, lantana, and fountain grass.**ELEVATION:** c. 471 feet**CONDITION:** Fair-good**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric**FUNCTIONAL INTERPRETATION:** Agriculture

DESCRIPTION: The overall complex area measures 45.50 m at 215 degrees Az. by 8.70 m. The site consists of a pahoehoe excavation (Feature A) and four mounds (Feature B).

FEATURE A: Pahoehoe excavation**FUNCTION:** Agriculture**DIMENSIONS:** 0.97 m by 0.79 m by 1.80 m

DESCRIPTION: An excavated pahoehoe blister with rocks stacked two courses and outlining the circular excavation. The blister excavation is not completely cleared but is filled half way with cobbles. Directly to the northwest of the blister are scattered cobbles on an apparent pavement. The pavement consists of angular pahoehoe gravels and cobbles; it covers an area 2.95 by 1.75 m.

A 3.45 m long alignment extends north from the blister. It turns to the east and continues an additional 13.25 m. The alignment is constructed with boulders and cobbles, one to four courses, depending on the extent of collapse.

FEATURE B: Mound (4)**FUNCTION:** Agriculture

DESCRIPTION: Feature B consists of four rock mounds constructed with large and medium pahoehoe boulders loosely stacked on top of pahoehoe finger flow. The cluster is c. 20.00 m northeast from Feature A. The first mound measures 2.00 by 1.37 m by 0.3 m high. It is loosely stacked in a circular arrangement with a square upright boulder separated 0.34 m from the mound at the east end. The second mound is 1.54 by 0.84 m and 0.35 m high. Small boulders are placed to form a flat and almost ovoid shaped mound. The third mound measures 1.18 by 0.95 m by 0.55 m high. Various sized rocks are loosely placed on top of each other to form the mound. The fourth mound measures 4.00 by 2.20 m by 0.70 m high. It is a triangular shaped mound with large and medium sized boulders. An outer rim of lichen faced boulders appears to have fallen from their original position on the mound and are presently positioned on the periphery.

SITE NO.: State: 13445 PHRI: T-228**SITE TYPE:** Complex (5 Features)**TOPOGRAPHY:** Gently sloping pahoehoe flow that has been extensively modified, excavated and cleared.**VEGETATION:** Christmas-berry, succulents, grass, and ferns.**ELEVATION:** c. 474 feet**CONDITION:** Good**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric-historic**FUNCTIONAL INTERPRETATION:** Habitation-recreation

DESCRIPTION: The overall complex area measures c. 21.0 m at 340 degrees azimuth by 10.0 m. The site consists of two caves (Features A and B), a papamu and trail section (Feature C) and a platform (Feature D).

There are numerous modifications around these features consisting of mounds, pahoehoe clearings, excavations, alignments etc. This complex is adjacent to and surrounded in part by Site 13446 features.

FEATURE A: Cave**FUNCTION:** Habitation**DIMENSIONS:** 19.20 m by 6.20 m by 1.65 m

DESCRIPTION: The cave entrance faces south and opens to a 4.00 by 1.40 m chamber that has an average ceiling height of 1.30 m. A tube extension continues 15.20 m east from the front chamber. The tube has an average width of 3.30 m and an average ceiling height of 1.20 m. A hearth feature is present in the front chamber, directly to the west of the tube. It is presently covered by boulders. Portable

remains observed include Conidae, Cypraeidae, mammal bone, kukui, charcoal and coral. The cave contains only minor modifications.

FEATURE B: Cave**FUNCTION:** Habitation**DIMENSIONS:** 37.00 m by 7.00 m by 1.20 m

DESCRIPTION: Feature B is 9.70 m northeast from Feature B. The cave entrance faces the north and measures 3.60 m wide and 1.10 m high. It is situated along the edge of a blister and exhibits minor modifications. Portable remains observed in the features occur within 10.00 m of the entrance. They include kukui nut shell and a thick, green bottle glass sherd.

FEATURE C: Papamu and trail section (Figure A-47)**FUNCTION:** Recreation**DIMENSIONS:** 0.47 m by 0.46 m by 0.13 m (papamu)

DESCRIPTION: Feature C is situated on a small rise to the southeast and above Features A and B. The papamu consists of 31 small circular depression engraved in a pattern of six rows and five columns. The stone is cracked into two pieces; both are still in association.

The trail section is immediately south of the papamu and measures 7.0 m in length with an average width of 0.9 m. Generally, it is paved with cobbles and with some basalt slabs as steppingstones. It appears to connect the two cave shelters.

FEATURE D: Platform**FUNCTION:** Habitation**DIMENSIONS:** 4.30 m by 3.80 m by 0.35 m

DESCRIPTION: The platform is rectangular shape in plan. The perimeter is defined by stacked, roughly faced pahoehoe slabs, averaging two courses high. The interior is filled with cobbles and pebble size pieces of pahoehoe. The surface is relatively level with a paved appearance. The surface interior fill is slightly below the tops of the perimeter stones. Most of the platform surface is free of large boulders except for a seven at the north end, just inside of the perimeter. These seven boulders are arranged in a square formation, a single course high.

There is a filled blister at the north end of the platform that is semicircular in shape and abutting the platform wall. The width ranges from 1.20 m to 4.20 m. The fill is primarily large blocks of pahoehoe. Another filled pahoehoe blister is immediately to the west of the west wall of the platform. Adjoining the filled blister is Feature C (trail section).



**Figure A-47. SITE 13445, FEATURE C. View to Northwest
(PHRI Neg. 1247-10)**

SITE NO.: State: 13446 PHRI: T-229
SITE TYPE: Complex (37 Features)
TOPOGRAPHY: Smooth and ropy pahoehoe finger and surface flows.
VEGETATION: Christmas-berry, fountain grass, and lantana.
ELEVATION: c. 465 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture-habitation
DESCRIPTION: The overall complex area measures 58.0 m by 49.5 m at 260 degrees Az. Two of the structures were given feature designations; an alignment (Feature A) and a terrace (Feature B). In addition to these features, eight rock mounds, 17 modified blisters, nine pahoehoe excavations and a terrace were enumerated.

FEATURE A: Alignment
FUNCTION: Agriculture
DIMENSIONS: 51.85 m by 1.96 m by 0.70 m
DESCRIPTION: Feature A is located near the center of the complex area. Generally oriented NE-SW, it is constructed with uprights, boulders and cobbles, and outlines an irregular, natural pahoehoe flow edge.

FEATURE B: Terrace
FUNCTION: Agriculture-habitation
DIMENSIONS: 6.20 m by 4.70 m by 0.90 m
DESCRIPTION: Feature B abuts a natural pahoehoe outcrop. The west and northwest sides are raised and faced with stacked, pahoehoe slabs, five courses high. The interior floor is filled with smaller cobble size pieces of pahoehoe. The major filled area of the terrace is C-shaped, and conforms with the outcrop edge. Shallow fill is placed on the slope of outcrop, giving the structure an overall rectangular surface form. The fill is level with the top of the perimeter walls. The N-S wall along the west face is 5.10 m long, the E-W wall along north face is 3.00 m long. Rock mounds are immediately to the east side, behind the terrace.

A small terrace occurs at the base of the northwest corner; it is semicircular and measures 1.75 m (E-W) by 1.0 m (N-S). It has stacked perimeter slabs two courses high and pebble/cobble-sized fill (leveled). Average height is 0.30 m and it abuts the higher, faced wall of the main terrace.

The second low terrace off the north wall is semicircular in plan. It measures 1.80 by 1.80 m and is constructed with a single-course boulder perimeter and has pebble fill. The surface is below the tops of the perimeter stones.

SITE NO.: State: 13447 PHRI: T-230
SITE TYPE: Complex (19 Features)
TOPOGRAPHY: Pahoehoe finger flows.
VEGETATION: Christmas-berry, lantana, grasses, guava, and koa-haole.
ELEVATION: c. 475 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture-possible habitation
DESCRIPTION: Overall area of this complex is 68.00 m (E-W) by 40.00 m (N-S). Features identified at the site include a platform (Feature A), six pahoehoe excavations, three modified blisters, and nine filled blisters.

FEATURE A: Platform
FUNCTION: Habitation
DIMENSIONS: 4.60 m by 4.30 m by 0.50 m
DESCRIPTION: Feature is a platform with a large upright in the northwest corner. The perimeter consists of single pahoehoe boulders. The platform is roughly paved with pahoehoe cobbles and gravels. A pahoehoe excavation is located 2.00 m south of the platform. Also, piled pahoehoe boulders are 4.00 m to the southwest of the platform.

SITE NO.: State: 13448 PHRI: T-231
SITE TYPE: Complex (7 Features)
TOPOGRAPHY: A flat to gentle westward sloping terrain consisting of pahoehoe outcroppings.
VEGETATION: Christmas-berry, koa-haole, various grasses, lantana, and guava.
ELEVATION: c. 485 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The site consists of a series of five interconnecting and two separate pahoehoe excavations. The five connecting pahoehoe excavations are cleared hollows in an area covered by large pahoehoe blocks and small boulders.

These five features are located on the south side of the complex. The overall measurement is 8.50 m at 290 degrees Az. by 10.00 m. The excavations range in size from 0.90 by 0.70 m to 2.00 by 0.90 m. Some visible pavement of pebbles and at least 0.14 m of soil are present within the excavations.

An L-shaped pahoehoe ledge excavation consists of some pahoehoe blocks placed along the upper pahoehoe flow. The interior is paved with pebbles and small cobbles.

It measures 9.00 m at 18 degrees Az. by 4.5 m. The thickness of the excavated pahoehoe layer is 0.30 m and the maximum depth of the excavation is 0.53 m. Soil is visible at the base.

Another pahoehoe excavation is lined and filled with large pahoehoe cobbles and small boulders. It measures 4.60 m at 304 degrees Az. by 7.6 m. Soil is present in a small paved area on the west side of the Feature.

SITE NO.: State: 13449 PHRI: T-232

SITE TYPE: Complex (3 Features)

TOPOGRAPHY: Gentle sloping pahoehoe and aa flows.

VEGETATION: Christmas-berry, kiawe, koa-haole, ferns, air plants, and lantana.

ELEVATION: c. 480 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Habitation-transportation-possible agriculture

DESCRIPTION: The overall complex area measures 50.00 m NE-SW by 12.0 m NW-SE. The site consists of a lava tube cave (Feature A), a cairn (Feature B) and a steppingstone trail (Feature C).

FEATURE A: Lava tube cave

FUNCTION: Habitation

DIMENSIONS: 50.00 m by 5.00 m by 2.00 m

DESCRIPTION: Feature A is a lava tube with three caved-in areas that serve as openings. Oriented in a SW direction, it extends to Site 13458. The width of the cave varies between 3.00-5.00 m and the height varies between 0.60-2.00 m.

A small retaining wall crosses part of the northeast end of the northeast chamber. The retaining wall is oriented at 125 degrees Az. and measures 3.60 m by 0.60 m and 0.45-1.12 m in height. It is constructed with stacked pahoehoe slabs and boulders.

Portable remains consists of Echinoidea and marine shell fragments.

FEATURE B: Cairn

FUNCTION: Possible agricultural mound

DIMENSIONS: 3.20 m by 2.20 m by 1.10 m

DESCRIPTION: Circular shape in plan, the outer edges are constructed with pahoehoe boulders stacked three to four courses high. Four large upright pahoehoe boulders are built into the cairn exterior wall, extending the full height of the feature and evenly spaced apart. The interior of the cairn consists of pahoehoe cobbles and gravels filled to the top of the feature.

FEATURE C: Steppingstone trail

FUNCTION: Transportation

DIMENSIONS: 18.28 m by 0.55 m

DESCRIPTION: The trail is oriented NW-SE. It consists of 21 pahoehoe slabs of various sizes and shapes placed across an aa flow. From its northwestern end, the runs 7.7 m at 160 degrees Az.. It makes a slight curve and continues 10.34 m at 150 degrees Az. The southeastern end is at a pahoehoe cobble field.

SITE NO.: State: 13450 PHRI: T-233

SITE TYPE: Steppingstone trail

TOPOGRAPHY: The terrain consists of smooth and ropy pahoehoe flows.

VEGETATION: Christmas-berry and koa-haole.

ELEVATION: c. 499 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Transportation

DIMENSIONS: 14.45 m by 0.36 m

DESCRIPTION: The steppingstone trail is oriented N-S. Nineteen pahoehoe slabs of various sizes and shapes make up the trail, which is identifiable only across an aa flow. In addition, there are scattered excavated pahoehoe blocks in the area.

SITE NO.: State: 13451 PHRI: T-234

SITE TYPE: Cave

TOPOGRAPHY: Smooth and ropy pahoehoe surface and finger flows.

VEGETATION: Christmas-berry, koa-haole, and lantana.

ELEVATION: c. 492 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Habitation

DIMENSIONS: 15.5 m by 9.00 m

DESCRIPTION: The site consists of three lava tube caves, all of which open to a central collapsed blister. The blister area has been modified with two circular alignments of cobbles that are paved on the interior. The pavements cover areas of 1.64 by 1.20 m and 2.28 by 0.92 m respectively.

Two of the tubes extend southwest from the collapsed blister. They are parallel to one another, 3.00 m apart, and have lengths of 11.10 m and 8.00 m respectively. At the end of the longest tube is a wall constructed of large roof-fall boulders, which may be blocking a continuation of the tube. The wall is oriented NW-SE; it is 4.90 m long and 1.21 m wide, with an average height of 0.95 m. A short extension of the wall continues 1.31 m to the southwest.

The third tube extends 4.60 m to the northeast from the main blister. At the end of this tube is a second collapsed blister, with the tube continuing to the northeast. There are three additional collapses along the alignment of this tube, none of which appear to have been utilized or modified.

Portable remains observed in the two southwestern tubes and collapsed blister include pieces of waterworn coral, waterworn basalt cobbles, kukui nut shell, charcoal flecks, and a waterworn basalt canoe breaker. A 0.06 m thick deposit of silty gray soil is present in the two southwestern chambers.

SITE NO.: State: 13452 PHRI: T-235

SITE TYPE: Paved trail

TOPOGRAPHY: Smooth to undulating pahoehoe surface and ledge flows.

VEGETATION: Christmas-berry and koa-haole.

ELEVATION: c. 486 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric/possible historic

FUNCTIONAL INTERPRETATION: Transportation

DIMENSIONS: 18.30 m by 2.53 m

DESCRIPTION: The paved cobble trail is oriented roughly N-S. The trail is graded on the downhill side and slopes to the south in a ramp-like manner. The northern end of the identified section is on a smooth pahoehoe ledge. The west side is built up with a retaining wall of stacked and faced pahoehoe slabs. The the east side abuts the surface of the pahoehoe ledge. As it continues downslope, the trail widens. The western side gradually grades into a surrounding ledge, which forms a natural edge for the lower portion of the trail. The trail surface is paved with angular pahoehoe pebbles and small cobbles.

SITE NO.: State: 13453 PHRI: T-236

SITE TYPE: Pavement

TOPOGRAPHY: Smooth and ropy pahoehoe flow.

VEGETATION: Christmas-berry, lantana, koa-haole, and fountain grass.

ELEVATION: c. 466 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DIMENSIONS: 4.80 m by 3.67 m by 0.00 m

DESCRIPTION: Rectangular shape in plan, the pavement has a distinct perimeter alignment of small angular pebbles. There are a few cobbles in the middle of the paved area. At the southern corner, there is an alignment of cobbles oriented northwest.

SITE NO.: State: 13454 PHRI: T-237

SITE TYPE: Complex (14 Features)

TOPOGRAPHY: Smooth and ropy pahoehoe flows.

VEGETATION: Christmas-berry and air plants.

ELEVATION: c. 460 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 5.98 m at 260 degrees Az. by 2.47 m. The complex consists of 11 pahoehoe excavations and three rock mounds. No cultural deposits or portable remains were observed. Five of the eleven pahoehoe excavations are into blisters, one is along a crevice and five are surface excavations.

FEATURE - : Mound

FUNCTION: Agriculture

DIMENSIONS: 1.76 m by 2.10 m by 1.40 m

DESCRIPTION: A boulder and cobble mound is stacked six courses high on a smooth pahoehoe flow on the eastern corner of the site. There are many scattered excavated blocks and cobbles in the immediate surrounding area.

FEATURE - : Mound

FUNCTION: Agriculture

DIMENSIONS: 0.95 m by 0.85 m by 1.20 m

DESCRIPTION: This mound is 2.00 m west of the above feature. It is constructed with stacked boulders, three courses high, with a pahoehoe slab on top. At present, it is collapsed. There are scattered excavated blocks and cobbles within the immediate area.

SITE NO.: State: 13455 PHRI: T-238

SITE TYPE: Complex (13+ Features)

TOPOGRAPHY: Gently sloping pahoehoe.

VEGETATION: Thick Christmas-berry, lantana, koa-haole, and grasses.

ELEVATION: c. 440 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: A modified outcrop, cairn, a minimum of six rock mounds and five pahoehoe excavations were identified within an area of 30.00 m at 110 degrees Az. by 25.00 m. None of the features show formal construction and all have been previously represented. This site appears to be the continuation of a large agricultural complex that covers much of the ahupua'a at this elevation.

SITE NO.: State: 13456 PHRI: T-239
SITE TYPE: Terrace
ELEVATION: c. 452 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13457 PHRI: T-240
SITE TYPE: Complex (4 Features)
TOPOGRAPHY: A gentle westward slope of disturbed pahoehoe.
VEGETATION: Koa-haole, Christmas-berry, lantana, and tall grasses.
ELEVATION: c. 445 feet
CONDITION: Fair
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric-early historic
FUNCTIONAL INTERPRETATION: Agriculture-possible habitation
DESCRIPTION: The overall complex area measures 8.6 m at 50 degrees Az. by 7.3 m. The site consists of a cairn (Feature A), an enclosure (Feature B), a terrace (Feature C) and a cupboard (Feature D). No portable remains or cultural deposits were observed; however, soil deposits were present in Feature D, a cupboard.

FEATURE A: Cairn
FUNCTION: Agriculture
DIMENSIONS: 1.12 m by 1.12 m by 0.71 m
DESCRIPTION: Boulders and large cobbles are loosely stacked on pahoehoe bedrock, four courses high. There is no evidence of core filling. The cairn is located at the northern corner of the enclosure, just outside the wall.

FEATURE B: Enclosure
FUNCTION: Possible habitation
DIMENSIONS: 8.60 m by 7.30 m by 0.50 m
DESCRIPTION: The enclosure is made of stacked pahoehoe boulders, 2-4 courses high. The walls are 0.70 m wide. The interior consists of a pahoehoe flow with an excavated ledge, a terrace (Feature C), and a cupboard (Feature D).

FEATURE C: Terrace
FUNCTION: Agriculture/possible habitation
DIMENSIONS: 4.50 m by 2.90 m by 0.00 m
DESCRIPTION: It is constructed with large pahoehoe boulders, one to two courses high along the south and west walls, and filled with cobbles and gravels. The terrace abuts the E-W wall (interior side) of the enclosure.

FEATURE D: Pahoehoe excavation and cupboard
FUNCTION: Agriculture/possible habitation
DIMENSIONS: 0.90 m by 0.55 m by 1.00 m
DESCRIPTION: The cupboard is built into the SW wall of

Feature B, Enclosure. It is c. 3.8 m from the southern corner of the enclosure. An excavated ledge is situated north of the cupboard.

SITE NO.: State: 13458 PHRI: T-241
SITE TYPE: Complex (5 Features)
TOPOGRAPHY: Pahoehoe and aa flows.
VEGETATION: Christmas-berry, koa-haole, noni, air plant, lantana, low ferns, and moss.
ELEVATION: c. 445 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Habitation-recreation

DESCRIPTION: The overall complex area measures 50.0 m at 200 degrees Az. by 5.00 m. Features present include a large lava tube divided into four cave area by natural collapse, and two papamu stones. The cave ceiling heights range from 0.75 m to 1.5 m. The first cave contains an area of stacked pahoehoe slabs measuring 1.90 m by 0.80 m and 0.94 m high. The second cave has a terrace area along the north wall. The terrace measures 5.10 m by 1.50-4.20 m and 0.10-0.39 m in height. One of the papamu is located in this tube; the other is one the surface, near the opening.

Several hearths, marine shell midden, ground stone tools, worked bone, echinoid abraders, kukui nut shell, charcoal, bamboo and coconut shell were observed in the caves.

SITE NO.: State: 13459 PHRI: T-242
SITE TYPE: Complex (2 Features)
TOPOGRAPHY: Smooth and ropy pahoehoe finger and surface flows.
VEGETATION: Christmas-berry, kiawe, low ferns and lantana.
ELEVATION: c. 455 feet
CONDITION: Fair
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Habitation
DESCRIPTION: The site complex consists of a cave (Feature A) and a modified outcrop (Feature B). The cave is a blister type that is situated in a depression with excavated blocks scattered throughout the area. The depression area measures 13.00 m at 335 degrees Az. by 10.90 m.

FEATURE A: Cave
FUNCTION: Habitation
DIMENSIONS: 6.80 m by 1.60 m by 0.72 m
DESCRIPTION: The interior of the cave has little

modifications. A possible distal end of a femur and a rib from an unidentified mammal was observed. A soil deposit of 0.02 m is present on the floor interior. At the eastern exterior corner of the cave is a faced wall. It is stacked six courses high at 0.97 m in height.

FEATURE B: Modified outcrop

FUNCTION: Habitation

DIMENSIONS: 5.40 m by 3.20 m

DESCRIPTION: Exterior of Feature A is a modified outcrop. It contains a filled and slightly paved area with pahoehoe slabs and cobbles.

SITE NO.: State: 13460 PHRI: T-243

SITE TYPE: Complex (4 Features)

TOPOGRAPHY: Along a raised pahoehoe tube formation.

VEGETATION: Thick Christmas-berry, lantana.

ELEVATION: c. 435 feet

CONDITION: Good to fair

INTEGRITY: Feature A partially collapsed

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: Three faced mounds, in varied stages of construction, and a cave shelter were identified at this site. There are probably additional features.

FEATURE A: Faced Mound

FUNCTION: Agriculture

DIMENSIONS: 1.55 m by 1.75 m by 1.10 m

DESCRIPTION: Feature A is a squarish faced mound, constructed on the crest of a pahoehoe tube ridge. The perimeter of the mound is formed from large pahoehoe blocks and slabs, stacked and faced up to five courses high. The interior is filled with smaller cobbles and pieces of pahoehoe. The sides of the mound slope inward toward the top. The southeastern third of the mound has collapsed, and is currently 0.30 m high.

A 1.0 by 1.0 m test unit was excavated into the collapsed section of the mound, in order to insure that it contained no internal features. In this lower section of the mound, fill was not differentiated by size, as indicated in the intact upper portion. There were relatively few small rocks at the base of the fill, and very little soil. The soil deposit consisted of duff, that appeared to have blown in, under the rocks. It was less than 0.01 m thick and was in quantities too small to collect. No portable remains were located.

Two additional faced mounds are located c. 10.0 m to the south of Feature A. To the east of these is cave shelter which opens to the east. The cave has not been recorded to date.

SITE NO.: State: 13461 PHRI: T-244

SITE TYPE: Stepped terrace

TOPOGRAPHY: Pahoehoe and aa flows.

VEGETATION: Koa-haole, kiawe, air plant, lantana, and Christmas-berry.

ELEVATION: c. 420 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DIMENSIONS: 9.00 m by 6.20 m by 0.90 m

DESCRIPTION: The terrace consists of two levels, both of which are raised along the north side. The lower level terrace has a surface area of 3.10 (E-W) by 3.10. The riser consists of pahoehoe boulders and cobbles, stacked three courses high (0.40-0.60 m) high. The wall is 9.0 m long and extends beyond the terrace surface, where it is 0.70 m wide. The upper level rises 0.40 m above the lower level and is retained by a wall stacked one to two courses high. A deposit of loam, 0.02 to 0.05 m thick is present on the terrace surface.

SITE NO.: State: 13462 PHRI: T-245 (*Figure A-48*)

SITE TYPE: Complex(4 Features)

TOPOGRAPHY: The terrain consists of a gentle slope of pahoehoe and aa flows.

VEGETATION: Kukui, Christmas-berry, lantana, koa-haole, kiawe, fountain grass, and elephant grass.

ELEVATION: c. 425 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture-possible habitation

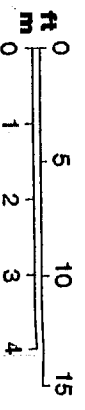
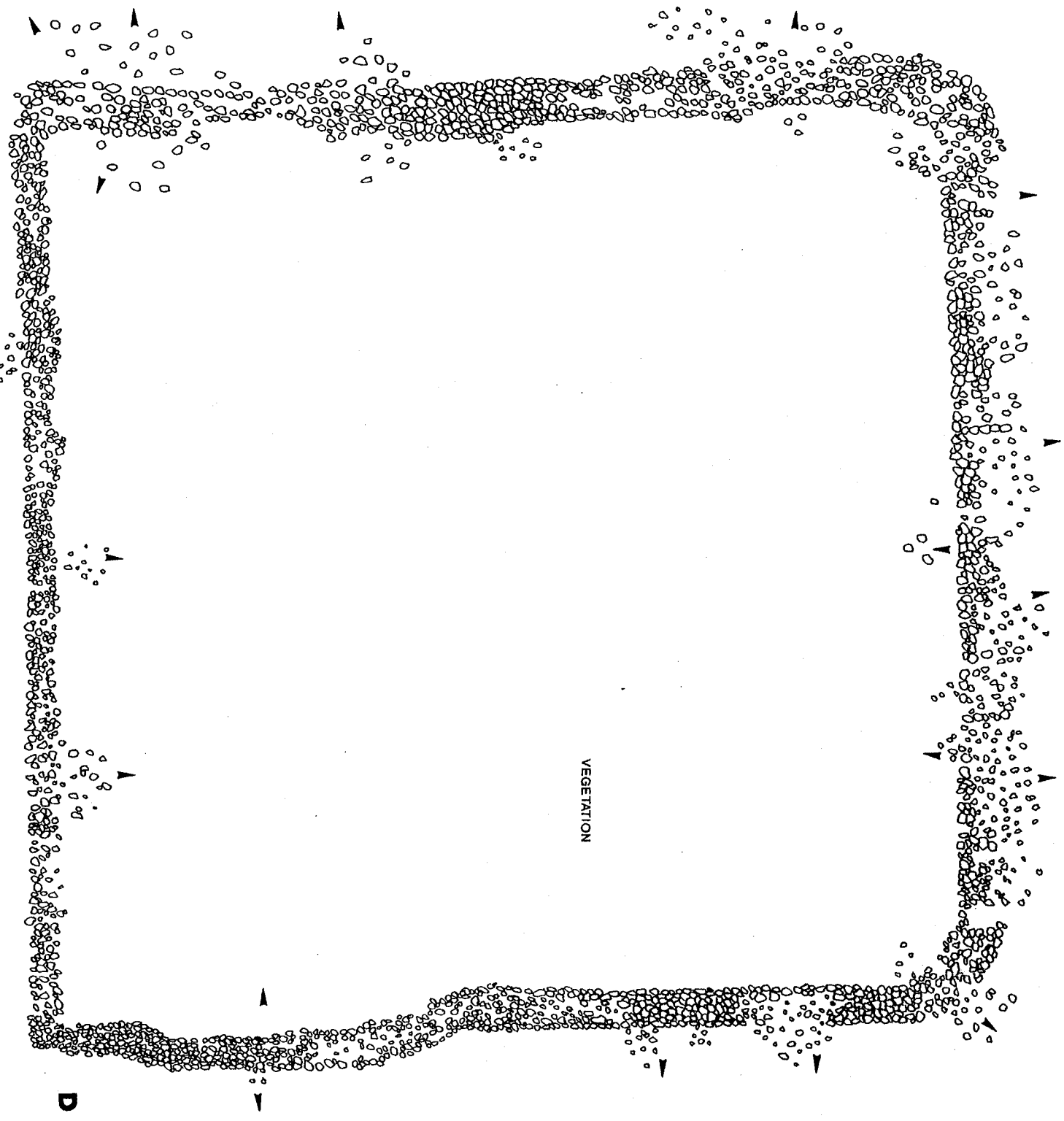
DESCRIPTION: The overall complex area measures 62.00 m (N-S) by 40.00 m (E-W). The site consists of a modified outcrop (Feature A), a rock alignment (Feature B), a C-shaped wall (Feature C), and an enclosure (Feature D). It is situated 35.00 m at 225 degrees Az. from Site 13468. Recent historic trash was noted on top of Feature A.

FEATURE A: Modified outcrop

FUNCTION: Agriculture

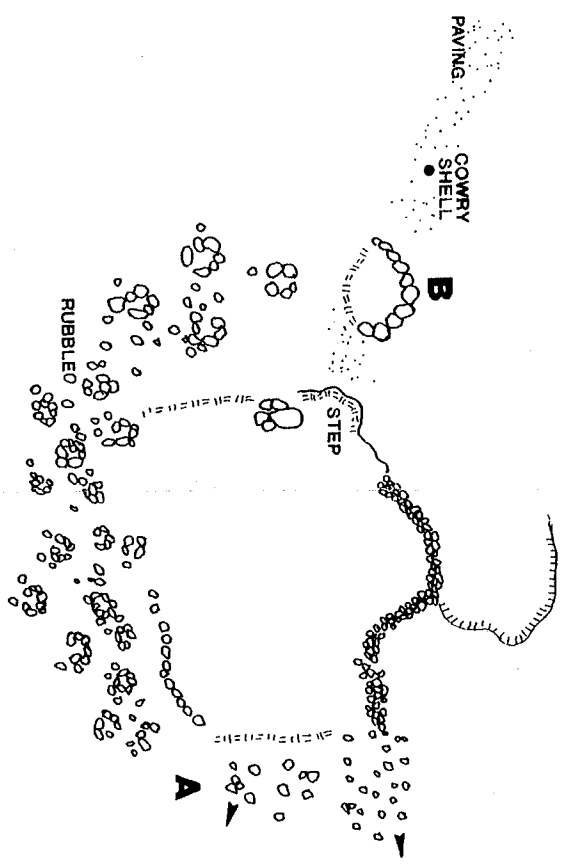
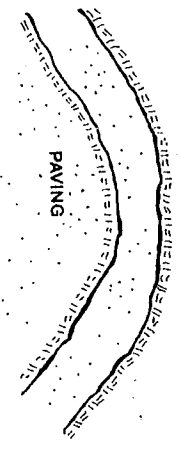
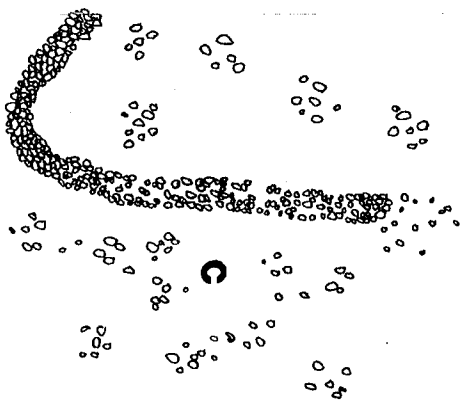
DIMENSIONS: 11.10 m by 11.00 m by 4.00 m

DESCRIPTION: The feature is on a large bedrock outcrop that is elevated 4.00 m above the other features in the site complex. A cobble filled pahoehoe boulder wall, three to five courses high, is situated on the southwest side of the modified outcrop. It measures 10.40 m by 0.90 m by 0.60 m high. On the north side of the feature is a rubble wall. It measures 7.20 m by 1.20 m and 0.40 m high. The interior of Feature A appears to be cleared of rubble.



----- BEDROCK
----- PAHOEHOE

Figure A-48. SITE 13462, FEATURES A-D



FEATURE B: Alignment**FUNCTION:** Agriculture**DIMENSIONS:** 2.00 m by 2.00 m by 0.50 m**DESCRIPTION:** Circular in plan view, Feature B is a rock ring surrounding a kukui nut tree. It is constructed with pahoehoe boulders and cobbles and is 4.80 m south of Feature A. A weathered cowrie shell was found 2.00 m to the southeast.**FEATURE C: C-shape wall****FUNCTION:** Agriculture**DIMENSIONS:** 15.60 m by 6.00 m by 1.30 m**DESCRIPTION:** The C-shape consists of stacked pahoehoe boulders, slabs and cobbles, two courses high. The northwest area of the wall extends into a natural pahoehoe and aa flow. The wall is 1.00 m wide and the heights range from 0.52-1.30 m. The open area between the two ends of the wall measures 9.80 m. Northeast of Feature C at 1.00 m are two small terraces that rise up towards Feature A.**FEATURE D: Enclosure****FUNCTION:** Agriculture**DIMENSIONS:** 32.00 m by 32.00 m by 1.50 m**DESCRIPTION:** Rectangular in plan view, it consists of stacked pahoehoe boulders, slabs and cobbles, stacked four to six courses high, and with cobble fill. The wall is 1.00 m wide and faced along the interior and exterior sides. No cultural deposits or portable remains were visible, however, scattered loam deposits 0.02-0.05 m thick were present. There are at least seven pahoehoe excavations located within the enclosure.**SITE NO.:** State: 13463 **PHRI:** T-246**SITE TYPE:** Complex(5 Features)**TOPOGRAPHY:** Aa flow within the immediate area; pahoehoe surface and finger flows adjacent.**VEGETATION:** Christmas-berry, koa-haole, and fountain grass.**ELEVATION:** c. 450 feet**CONDITION:** Good**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric**FUNCTIONAL INTERPRETATION:** Burial-habitation/
possible ceremonial**DESCRIPTION:** Overall complex area measures 22.0 m at 65 degrees Az. by 17.5 m. The site consists of an enclosed platform (Feature A), a modified cave (Feature B), a cave with human remains (Feature C), a footpath (Feature D), and a pavement (Feature E).**FEATURE A: Enclosed platform****FUNCTION:** Habitation/possible ceremonial**DIMENSIONS:** 13.70 m by 4.30 m by 1.80 m**DESCRIPTION:** Rectangular in plan view, the platform is paved with pahoehoe slabs, aa pebbles and cobbles. The western corners have collapsed slightly but appear to have been stacked with aa cobbles and boulders, four to eight courses high. The platform is enclosed except for an apparent entrance at the southeast side. The entrance opening measures 0.59 m by 0.43 m and is 0.34 m high.

Abutting the platform entrance to the southeast is a paved surface area that measures 4.75 m by 3.30 m and is 0.60 m above the surrounding aa floor. This paved area fronts the platform and is built with aa pebbles and steppingstones consisting of various sizes of pahoehoe slabs. The steppingstones lead from the east corner of the paving to the platform entrance. Directly below and adjacent to the paving is another pavement/modified area (Feature E).

FEATURE B: Cave**FUNCTION:** Habitation**DIMENSIONS:** 4.00 m by 3.65 m by 1.90 m**DESCRIPTION:** A modified blister cave with a paved surface, modified entry and a tube on the SW side of the chamber. The blister entrance measures c. 1.82 m wide and 1.53 m high. The paved area is semicircular shape in plan and is located in the northwest area of the chamber. It measures 2.91 m by 1.76 m and is cobble lined with aa gravel paving.

The NE side of the chamber floor has been paved with pahoehoe slabs, however, collapse has interfered with the arranged pattern at the NE corner. In the middle of the chamber is an alignment oriented NW-SE. It measures 1.65 m by 0.40 m and is 0.50 m in height. It is built with cobbles and a pahoehoe boulder and appears to be a division between the paved areas. Cobbles and pahoehoe slabs make up the southwest side of the paved area with slight collapse at the southwest corner. A very small blister opening is at the southwest corner of the cave, above the natural bedrock shelf, and a small tube opening is directly below.

FEATURE C: Cave**FUNCTION:** Burial**DESCRIPTION:** The cave entrance measures 1.84 m by 1.56 m and 1.3 m in height. The skeletal remains of a child, consisting of a mandible fragment showing 1st and 2nd molar and a bud of 3rd, skull fragments and a pelvis

fragment were observed in an area 3.00 m from the entrance. The remains are disturbed and in very poor preservation.

FEATURE D: Trail

FUNCTION: Transportation

DIMENSIONS: 13.00 m by 0.50 m by 0.00 m

DESCRIPTION: Feature D is a footpath that appears to be cleared of large aa cobbles and consists of crushed aa gravel. It extends south through the aa flow, splits and leads to the northern and eastern corners of Feature A.

FEATURE E: Pavement

FUNCTION: Indeterminate

DIMENSIONS: 10.00 m by 9.00 m by 0.75 m

DESCRIPTION: It is directly below and adjacent to Feature A. Feature E is raised 0.60-0.75 m above the surrounding aa flow. Southeast is another paved area. It measures 2.30 m by 1.00 m with an opening at the southeast end 0.43 m wide and 0.41 m high. The paved area is outlined with aa cobbles and boulders and is filled with aa pebbles.

SITE NO.: State: 13464 PHRI: T-247

SITE TYPE: Complex(8 Features)

TOPOGRAPHY: Pahoehoe flows

VEGETATION: Christmas-berry, kiawe, lantana, fountain grass, and morning glory.

ELEVATION: c. 446 feet

CONDITION: Fair

INTEGRITY: Unaltered to partially altered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 65.00 m NW-SE by 30.0 m NE-SW. The site consists of a rock alignment (Feature A), two enclosures (Feature B), a cairn (Feature C), three pahoehoe excavations (Feature D) and a rock mound (Feature E).

FEATURE A: Alignment/wall

FUNCTION: Agriculture

DIMENSIONS: 60.00 m by 0.90 m by 0.60 m

DESCRIPTION: Feature A is mostly an alignment of single boulders, but in five places it resembles a rubble wall of loosely stacked boulders and cobbles. The width is variable, with a maximum of 0.90 m. The Feature E mound is present 1.60 m from the northwest end of the alignment.

FEATURE B: Enclosure (2)

FUNCTION: Agriculture

DIMENSIONS: 8.30 m by 4.70 m by 0.80 m

DESCRIPTION: Feature B consists of two enclosures adjacent to each other. The northern enclosure is kidney shape in plan. It measures 6.40 m at 40 degrees Az. by

3.0 m. This enclosure is constructed with pahoehoe boulders, stacked 2-4 courses high. It appears to be filled with pahoehoe boulders from a surrounding wall. The southern enclosure is smaller and measures 2.0 by 1.7 m. It is constructed with pahoehoe boulders, two to three courses high with smaller cobbles and gravels as core fill.

FEATURE C: Cairn

FUNCTION: Indeterminate

DIMENSIONS: 2.00 m by 0.60 m by 0.45 m

DESCRIPTION: The cairn is constructed with pahoehoe cobbles, two courses high. It is presently collapsed. It is in the immediate vicinity of the enclosures.

FEATURE D: Pahoehoe excavation (3)

FUNCTION: Agriculture

DIMENSIONS: 5.00 m by 1.20 m by 0.32 m

DESCRIPTION: A lava bubble with the top portion removed. There is 0.02-0.11 m of organic loam at the base of the excavations. The first pahoehoe excavation is 30.0 m at 10 degrees Az. from Feature A. It measures 1.20 m (E-W) by 0.70 m (N-S) and 0.28 m deep. Six small rocks are lining the west edge. The second pahoehoe excavation is 0.94 m east from the first excavation. It measures 0.75 m (N-S) by 0.64 m (E-W) and is 0.32 m deep. The third excavation is 4.07 m at 53 degrees Az. from the first excavation. It measures 1.11 m (E-W) by 0.87 m (N-S) and is 0.29 m deep.

FEATURE E: Mound

FUNCTION: Agriculture

DIMENSIONS: 1.80 m by 1.50 m by 0.60 m

DESCRIPTION: It is situated 1.6 m from Feature A.

SITE NO.: State: 13465 PHRI: T-248 (*Figure A-49*)

SITE TYPE: Complex (8 Features)

TOPOGRAPHY: Smooth and ropy pahoehoe surface and finger flows. Excavated blocks are scattered throughout the entire area.

VEGETATION: Christmas-berry, lantana, koa-haole, and kiawe.

ELEVATION: c. 401 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture/habitation/possible ceremonial

DESCRIPTION: The overall complex area measures 25.25 m at 230 degrees Az. by 16.4 m. The site consists of a platform (Feature A), a terrace with an upright (Feature B), two wall remnants (Features C and D), a pavement with an

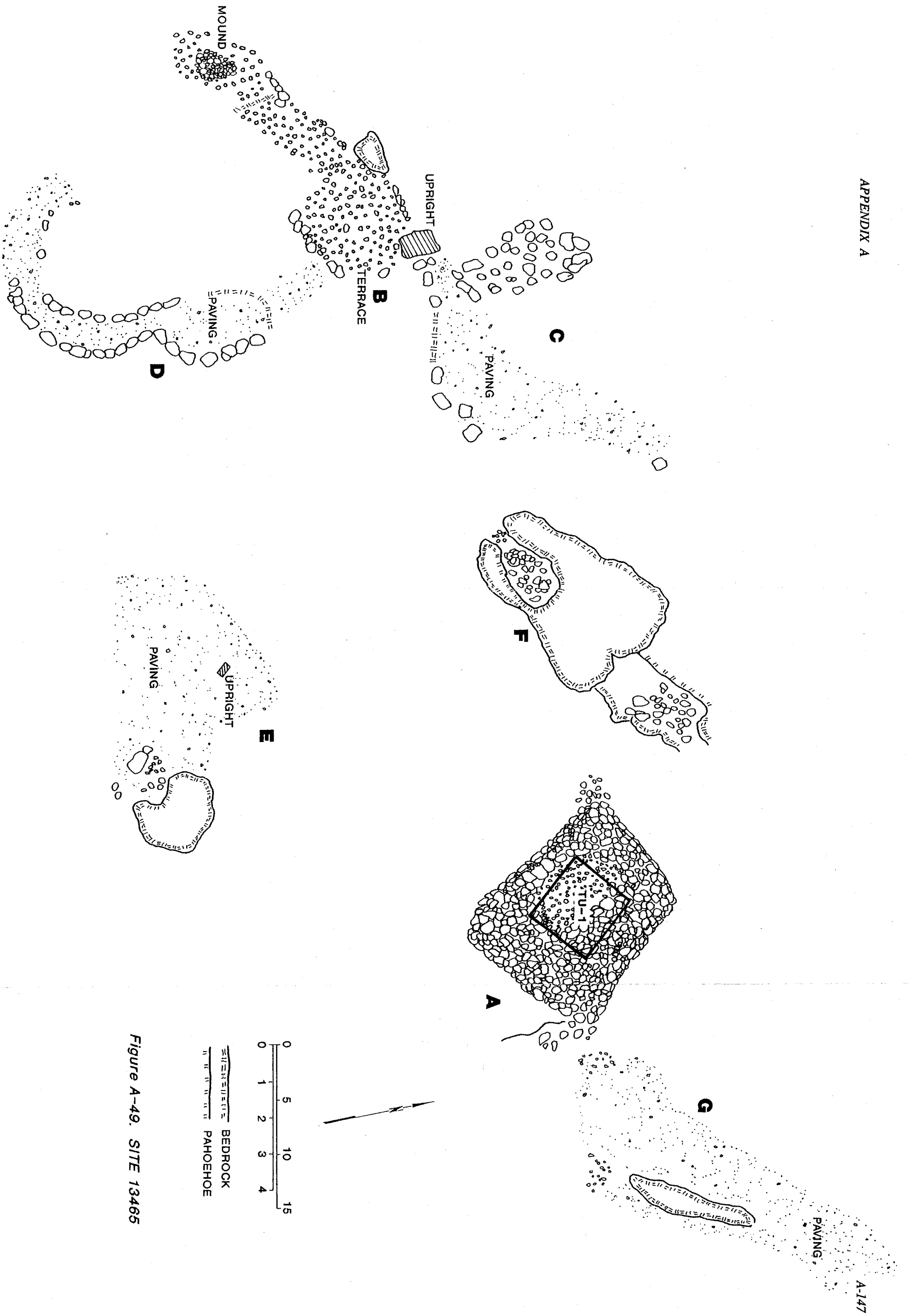


Figure A-49. SITE 13465

upright (Feature E), a pahoehoe excavation and lava tube (Feature F) and a pavement (Feature G). A minimum of four pahoehoe excavations, four excavated pebble aggregates (core filled), and one rock mound were identified within a 10.0 m range around the site complex.

FEATURE A: Platform

FUNCTION: Agriculture/possible habitation

DIMENSIONS: 5.50 m by 3.85 m by 1.22 m

DESCRIPTION: Rectangular shape in plan, it is raised on all four sides and faced, up to six courses high. Pahoehoe boulders are used for the perimeters, and small boulders and cobbles used as fill. The surface is filled up to the top of the perimeter stones. The east and west corners have collapsed. A portion of the surface near the center (3.10 by 1.28 m area) is paved with small cobbles and pebbles. The remainder of the surface exhibits the cobble and boulder fill, and is scattered with loose cobbles and boulders that appear to have been thrown onto the original surface. The area of smaller pavement appeared to represent a possible excavation into the platform.

A test unit was excavated into the center of the platform, in order to determine if it contained an internal feature, such as a human interment. The unit was begun at the surface as a 2.00 by 2.00 m unit and decreased in size with depth, in order to minimize disturbance to the feature. At ending depth, the test unit measured 0.75 by 0.50 m. The surface pavement of small cobbles and pebbles was found to be only a single layer thick (0.02 m), over undifferentiated cobble and boulder fill. This fill was 0.35 to 0.64 m thick overlying a sloping pahoehoe blister surface. Deposits of soil occurred in crevices in the bedrock, to a maximum depth of 1.16 m below the top of the platform (beginning at 1.10 m below surface). No portable remains or cultural deposits were located. A soil sample was collected for further analysis (see subsurface findings).

FEATURE B: Terrace with upright

FUNCTION: Habitation/ceremonial

DIMENSIONS: 5.40 m by 3.60 m by 0.52 m

DESCRIPTION: Medium sized boulders are used at intervals along the perimeter of the terrace. The center area is paved with pebbles. At the northwest corner is a large upright slab measuring 0.60 m high by 0.27 m deep and 0.64 m wide. A paved area is situated along the southeast side of the terrace. This paving connects Feature B with Feature D, a crescent shaped wall remnant. The south side of Feature B terrace is another paved area that leads to a rock mound that is 0.43 m high.

FEATURE C: Wall remnant

FUNCTION: Habitation/agriculture

DIMENSIONS: 8.00 m by 6.40 m by 0.40 m

FEATURE D: Wall remnant

FUNCTION: Habitation/agriculture

DIMENSIONS: 7.40 m by 4.00 m by 0.45 m

FEATURE E: Pavement with upright

FUNCTION: Habitation/ceremonial

DIMENSIONS: 5.50 m by 4.00 m by 0.35 m

FEATURE F: Pahoehoe excavation and lava tube

FUNCTION: Habitation/agriculture

DIMENSIONS: 8.40 m by 3.70 m by 0.00 m

FEATURE G: Pavement

FUNCTION: Indeterminate

DIMENSIONS: 11.00 m by 3.70 m by 0.10 m

SITE NO.: State: 13466

PHRI: T-249

SITE TYPE: Terrace

ELEVATION: c. 416 feet

FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13467

PHRI: T-250

SITE TYPE: Complex(9+ Features)

TOPOGRAPHY: Gently sloping pahoehoe flows.

VEGETATION: Kiawe, koa-haole, Christmas-berry, air plants, and lantana.

ELEVATION: c. 407 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 30.0 m at 240 degrees Az. by 20.0 m. The site complex consists of at least six pahoehoe excavations (Feature A), two terraces (Features B and C), and four rock mounds (Feature D).

FEATURE A: Pahoehoe excavation (6+)

FUNCTION: Agriculture

DIMENSIONS: 20.00 m by 5.00 m by 1.30 m

DESCRIPTION: The excavations consists of excavated pahoehoe ledges with the quarried material piled or scattered in the nearby area. Three of the excavations have small deposits of loam, c. 0.02-0.03 m thick, within the interiors. The depths of the excavations vary between 0.30 m to 1.3 m.

FEATURE B: Terrace**FUNCTION:** Agriculture**DIMENSIONS:** 6.00 m by 4.20 m by 0.25 m

DESCRIPTION: The terrace utilizes the pahoehoe flow with rocks stacked one to two courses around the exterior and filled with cobbles and gravels. A cleared area is adjacent to the southwest and below the terrace. The cleared area has a stacked pahoehoe boulder wall on the northwest side extending the length of the feature. The southeast side of the feature has what looks like the remains of a pahoehoe cobble/boulder barrier or wall. Between these two walls lies cobbles and clinkers strewn throughout the interior.

FEATURE C: Terrace**FUNCTION:** Agriculture**DIMENSIONS:** 6.10 m by 0.65 m by 0.81 m

DESCRIPTION: Feature C is located 1.0 m north of Feature D. The terrace retaining wall is oriented at 250 degrees Az. It is constructed with stacked pahoehoe boulders, slabs and cobbles.

FEATURE D: Mound**FUNCTION:** Agriculture**DIMENSIONS:** 2.40 m by 1.44 m by 0.73 m

DESCRIPTION: Roughly circular shape in plan, the central portion is presently stacked. It is collapsed along the southeast and southwest sides.

SITE NO.: State: 13468**PHRI:** T-251**SITE TYPE:** Enclosure

TOPOGRAPHY: The terrain consists of pahoehoe surface and finger flows.

VEGETATION: Koa-haole, kiawe, lantana, and Christmas-berry.

ELEVATION: c. 409 feet**CONDITION:** Fair**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric**FUNCTIONAL INTERPRETATION:** Agriculture**DIMENSIONS:** 12.35 m by 5.40 m

DESCRIPTION: The site consists of a rectangular shaped enclosure with a paved area at the southern corner extending into two rock mounds, and a filled pahoehoe blister excavation on the southeast side of the enclosure. In addition, a minimum of 22 rock piles and three modified outcrops were identified within a 10.0 m range surrounding the area.

The enclosure is oriented NE-SE. It is constructed with three courses of pahoehoe, roughly faced, but it is presently collapsing along the perimeter. An upright is placed in the middle of the enclosure wall and measures 0.69 m by 0.20 m and 0.6 m in height.

In the central area of the enclosure there is a NW-SE oriented alignment of pahoehoe cobbles and core filled with pebbles. It extends 3/4 of the way and measures 2.7 m at 325 degrees Az. by 0.72 m and 0.38 m in height.

Another alignment is present at the SW area of the enclosure, oval shape in plan and adjoining the enclosure walls. It is constructed with pahoehoe cobbles, stacked one course high, and measures 3.74 m by 1.06 m and 0.4 m in height.

At the southern corner of the enclosure is a core filled area of cobbles and pebbles measuring 1.50 m by 1.28 m. It leads to a rock mound of pahoehoe cobbles measuring 3.20 m by 3.30 m. To the west at 275 degrees and 0.66 m is another rock pile measuring 2.60 m by 1.50 m. The pahoehoe excavation located on the southeast side of the enclosure measures 1.52 m by 1.24 m.

SITE NO.: State: 13469**PHRI:** T-252**SITE TYPE:** Complex (6 Features)**TOPOGRAPHY:** Pahoehoe finger and surface flows.

Scattered boulders and cobbles are in the area.

VEGETATION: Dense vegetation consisting of air plants.**ELEVATION:** c. 390 feet**CONDITION:** Fair-good**INTEGRITY:** Unaltered**PROBABLE AGE:** Prehistoric

FUNCTIONAL INTERPRETATION: Indeterminate marker

DESCRIPTION: The site complex consists of six aligned cairns (Features A-F) that are oriented 130 degrees Az. (NW-SE). The overall area measures 14.4 m by 2.12 m.

FEATURE A: Cairn**FUNCTION:** Marker**DIMENSIONS:** 1.10 m by 0.94 m by 0.91 m

DESCRIPTION: Feature A is situated at the northwest corner of the complex. It is constructed with pahoehoe cobbles at the base, forming a wide circular structure. Stacked eight courses high, it is centrally raised.

FEATURE B: Cairn**FUNCTION:** Marker**DIMENSIONS:** 1.21 m by 1.20 m by 1.15 m

DESCRIPTION: Feature B is 1.53 m at 130 degrees Az. from Feature A. It is constructed with boulders at the base and narrowing at the top with cobbles. It is presently collapsing along the northeast corner.

FEATURE C: Cairn**FUNCTION:** Marker

DIMENSIONS: 0.78 m by 0.66 m by 0.69 m
DESCRIPTION: Feature C is 2.50 m at 130 degrees Az. from Feature B. The cairn is constructed with pahoehoe cobbles at the base and a large pahoehoe boulder at the top.

FEATURE D: Cairn
FUNCTION: Marker
DIMENSIONS: 1.12 m by 0.89 m by 0.87 m
DESCRIPTION: Feature D is 1.34 m at 130 degrees Az. from Feature C. The cairn is constructed with pahoehoe cobbles. It is wide at the base and centrally raised.

FEATURE E: Cairn
FUNCTION: Marker
DIMENSIONS: 1.10 m by 0.60 m by 0.89 m
DESCRIPTION: Feature E is 1.21 m at 130 degrees Az. from Feature D. Feature E is constructed with boulders and cobbles. It is wide at the base and narrows at the top.

FEATURE F: Cairn
FUNCTION: Marker
DIMENSIONS: 0.70 m by 0.66 m by 0.52 m
DESCRIPTION: Feature F is 1.37 m at 130 degrees Az. from Feature E. Feature F is built with pahoehoe cobbles. The top area is collapsed.

SITE NO.: State: 13470 **PHRI:** T-253
SITE TYPE: Petroglyph
TOPOGRAPHY: Pahoehoe finger and surface flows.
VEGETATION: Christmas-berry, koa-haole, and lantana.
ELEVATION: c. 350 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Historic
FUNCTIONAL INTERPRETATION: Rock art
DIMENSIONS: 0.51 m by 0.17 m by 0.00 m
DESCRIPTION: The name HANA is pecked into a pahoehoe slab. The letters are formed by a series of closely spaced circular pecks, c. 0.05 m deep.

SITE NO.: State: 13471 **PHRI:** T-254
SITE TYPE: Complex(3 Features)
TOPOGRAPHY: Pahoehoe finger and surface flows.
VEGETATION: Christmas-berry, lantana, kiawe, koa-haole, and laua'e
ELEVATION: c. 346 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Habitation/
 agriculture/ceremonial
DESCRIPTION: The complex consists of upright (Feature A), a platform (Feature B) and a modified blister cave

(Feature C). The overall site area measures 26.75 m at 253 degrees Az. by 16.15.

FEATURE A: Upright (+)
FUNCTION: Possible ceremonial
DIMENSIONS: 0.96 m by 0.45 m by 1.40 m
DESCRIPTION: A large, upright, aa slab with excavated cobbles piled at the front of and to each side of the upright. Southwest at 0.40 m is another upright. This upright measures 0.50 m by 0.20 m and 0.47 m in height. Within the immediate area but away from the upright is an area measuring 2.35 m by 1.50 m of scattered cobbles. In addition, south and southwest of the area are scattered excavated boulders and cobbles and an excavated blister.

FEATURE B: Platform (*Figure A-50*)
FUNCTION: Agriculture
DIMENSIONS: 4.65 m by 3.75 m by 0.80 m
DESCRIPTION: The platform is roughly rectangular shape in plan and is built on top of smooth to ropy pahoehoe. It is raised on all four sides with the western and eastern corners collapsing at present. It is constructed with boulders and cobbles at the base and stacked four courses high on the western corner. The surface interior of the platform has been filled with angular pahoehoe pebbles, and slabs of pahoehoe surround this paved interior area. The area of the paved surface is 2.20 m by 1.70 m.

A 1.00 by 1.00 m square test unit was excavated into the center of the platform, in order to determine if it contained internal features, such as a human interment. The fill in the test unit was found to be undifferentiated cobbles and some pebbles, which ranged in thickness from 0.35 to 0.48 m. The fill was deposited directly on a sloping pahoehoe blister, the crest of which is at the center of the platform. Very thin soil deposits was located in crevices in the bedrock; the thickest of which was 0.04 m. A sample of the soil was collected for further analysis (see subsurface findings). No portable remains or cultural deposits were located in the test unit.

FEATURE C: Cave
FUNCTION: Habitation
DIMENSIONS: 6.20 m by 1.85 m by 1.50 m
DESCRIPTION: A collapsed blister type shelter cave oriented N-S. It is partially excavated on the west side with cobble rubble present on the floor and at the entrance. There is a possible hearth in the northern tube consisting of cobbles and pebbles surrounding the ash deposit area.

Portable remains observed consist of vegetal and kukui nut fragments. A 0.05 m thick deposit of gray ashy soil occurs in the southern tube and a 0.06 m deposit of ash occurs in the northern tube.

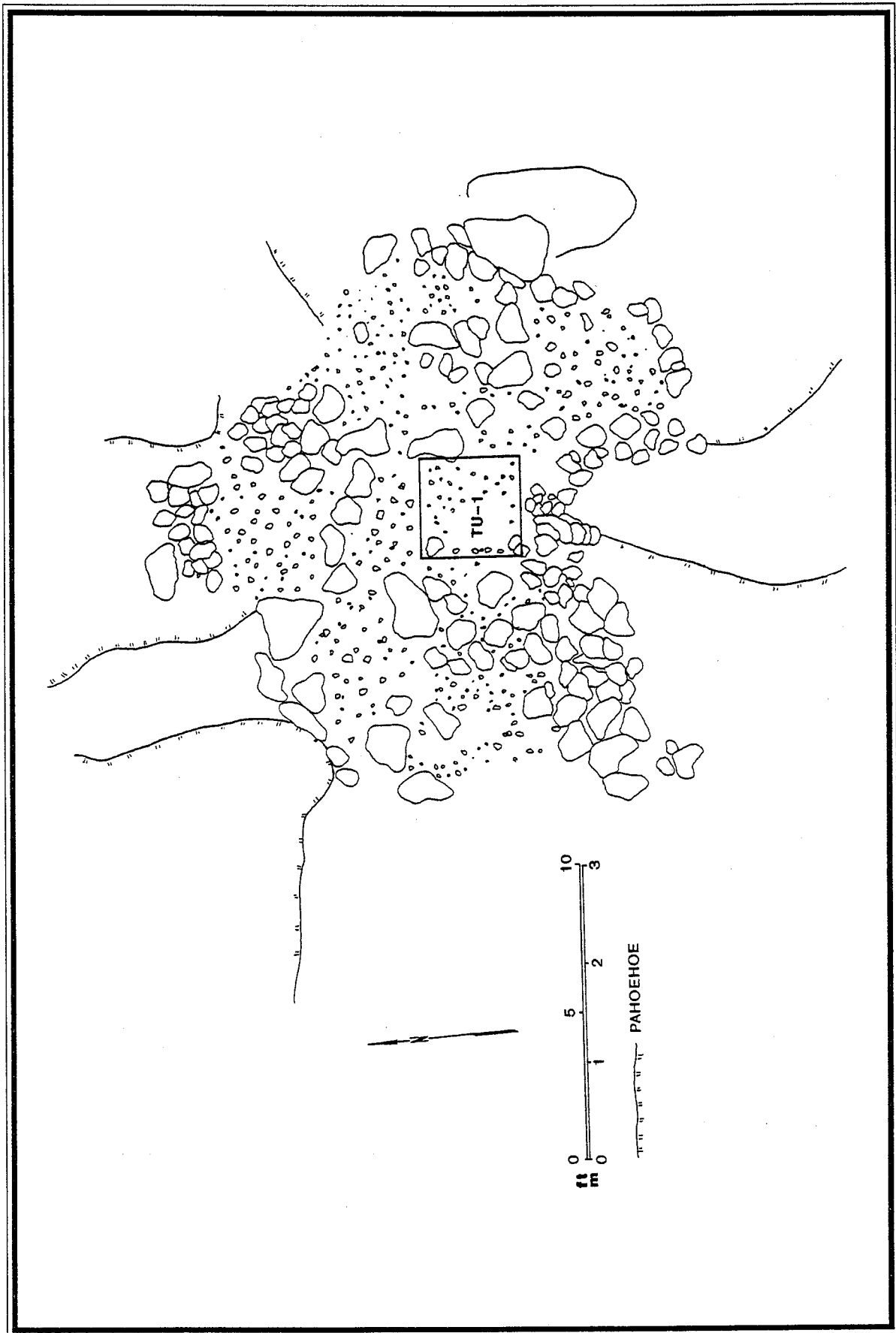


Figure A-50. SITE 13471, FEATURE B

SITE NO.: State: 13472 **PHRI:** T-255
SITE TYPE: Complex (164 Features)
TOPOGRAPHY: The site is situated along a prominent E-W pahoehoe ridge. Small aa pockets are present especially along the west facing lower slope of the ridge.
VEGETATION: Predominantly Christmas-berry with thick kiawe, 'akia; scattered grasses and 'ilima.
ELEVATION: c. 352 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The overall area that was inventoried measures 60.0 m (N-S) by 60.0 m (E-W). The area is a continuous carpet of agricultural features. It extends into Site 13473 to the east and Site 13471 to the west. All are part of an unbroken area of features. The site consists of at least 115 agricultural features along the south facing ridge slope in an area measuring c. 60.0 m by 30.0 m. These features are principally pahoehoe excavations, filled depressions, some terrace-like modified outcrops.

The pahoehoe blisters are excavated and cleared, or backfilled with pahoehoe cobbles. Natural depressions are filled with pebbles and cobbles over gravel-size basalt. There are some crude terraces with cobble perimeters around the outcrops.

Many features form a continuous line or cluster with scattered stones throughout area. No large mounds or linear mounds are present, rather, there are many small "plots" in close vicinity. No modifications were noted in three aa pocket areas.

Features along the north side of the baseline consist of 15 small excavations with large boulders, 17 small excavations with cobbles, five large excavations with boulders, seven large holes with cobbles, one area of two large uprights, one solitary block, a small rock mound with one modified upright (0.47 m high by 0.62 m wide); a C-shape alignment of five boulders, one arrangement of boulders, and one small mound. A total of 49 were enumerated in the north half of the site, and 115 features in the south half.

SITE NO.: State: 13473 **PHRI:** T-256
SITE TYPE: Complex (73 Features)
TOPOGRAPHY: Generally west facing to north facing slope with somemicro-variation. The terrain is undulating and somewhat disturbed pahoehoe especially at the north half of the site; not a prominent ridge area compared with adjacent Site 13472.
VEGETATION: Very thick Christmas-berry, 'akia, kiawe, and lantana.

ELEVATION: c. 359 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric-early historic
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The site is basically a sampled portion of a large expanse of agricultural features. The boundaries were arbitrary for the purposes of determining feature density and types present. Sites 13471 and Site 13472 are parts of the same complex.

An E-W baseline was established, beginning at 60.00 m on the Site 13472 baseline. The area inventoried measures 60.00 m (E-W) by 60.00 m (N-S). Feature counts were taken on both sides of the line, 30.00 m to the north and 30.00 m to the south.

On the south side (60.00 m by 30.00 m), are 52 pahoehoe excavations with associated rock piles, two low amorphous mounds and one crude terrace. On the north side (60.0 m by 30.0 m) of the baseline, are seven small pahoehoe excavations with boulders, three large excavations with large boulders, six large excavations with cobble/pebble fill, plus an area of very large pahoehoe blocks (averaging 0.62 m x 0.60 m) along the base line. A large upright with small excavation also present in the area. There are natural variations in the pahoehoe along the north side.

The predominant bedrock modification technique represented is breakage of the pahoehoe blisters and outcrop edges. In addition, there is associated filling of clearings and depressions, and construction of low mounds and terrace-like formations of boulders and cobbles. No formalized construction or faced terraces were observed. Soil pockets occur in clearings, under the pebbles and cobbles, and in low areas. No modifications after abandonment are indicated.

SITE NO.: State: 13474 **PHRI:** T-257
SITE TYPE: Modified cave
ELEVATION: c. 365 feet
FUNCTIONAL INTERPRETATION: Habitation
DIMENSIONS: 55.00 m by 3.20 m by 0.00 m

SITE NO.: State: 13475 **PHRI:** T-258
SITE TYPE: Cleared blister
TOPOGRAPHY: The terrain consists of pahoehoe flow.
VEGETATION: Koa-haole, Christmas-berry, and air plants.
ELEVATION: c. 424 feet
CONDITION: Fair
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture

DIMENSIONS: 5.60 m by 5.10 m

DESCRIPTION: A collapsed blister that has been cleared with pahoehoe boulders loosely stacked around the northwest edge. Small cobbles are at the bottom of the blister.

SITE NO.: State: 13476 **PHRI:** T-259

SITE TYPE: Complex (10 Features)

TOPOGRAPHY: Pahoehoe finger flows.

VEGETATION: Christmas-berry, kiawe, lantana, grasses, and koa-haole.

ELEVATION: c. 411 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The site complex consists of ten pahoehoe excavations within an area 40.00 by 8.50 m. All of the excavations have been cleared and lined with small pahoehoe cobbles. The excavation at the far eastern end of the site is a long excavated blister with pahoehoe boulders and cobbles mounded up at one end. The central excavation has boulders stacked along its northern edge. No portable remains or cultural deposits were observed, however brownish loam deposits were observed.

SITE NO.: State: 13477 **PHRI:** T-260

SITE TYPE: Complex (4 Features)

TOPOGRAPHY: The terrain is generally flat pahoehoe flow with outcroppings.

VEGETATION: Christmas-berry, lantana, kiawe, and grasses.

ELEVATION: c. 421 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture/
possible habitation

DESCRIPTION: The site complex consists of two adjacent enclosures (Feature A), a C-shape wall (Feature B) and a rock mound (Feature C). The overall complex area measures 46.00 m (N-S) by 13.00 m (E-W). No cultural deposits or portable remains were observed.

FEATURE A: Enclosure (2)

FUNCTION: Agriculture/possible habitation

DIMENSIONS: 11.30 m by 10.60 m by 0.97 m

DESCRIPTION: Feature A consists of two adjacent circular enclosures with one common wall. The northernmost enclosure is the largest. It measures 7.20 m (E-W) by 5.90 m (N-S) and is 0.97 m high. The northern enclosure is constructed with loosely piled pahoehoe boulders with a

1.17 m wide opening at the north end. The southern and smaller enclosure measures 4.70 m (N-S) by 4.10 m (E-W) and is 0.83 m high.

FEATURE B: C-shape wall

FUNCTION: Indeterminate

DIMENSIONS: 4.70 m by 2.80 m by 0.65 m

DESCRIPTION: Feature B is located 6.00 m southwest from Feature A. It is a C-shaped wall consisting of pahoehoe cobbles stacked two to three courses high, on and around a pahoehoe ledge.

FEATURE C: Mound

FUNCTION: Indeterminate

DIMENSIONS: 2.00 m by 1.20 m by 0.70 m

DESCRIPTION: Feature C is adjacent to and north of Feature A. It is constructed with loosely stacked pahoehoe boulders two to three courses high.

SITE NO.: State: 13478 **PHRI:** T-261

SITE TYPE: Complex (6 Features)

TOPOGRAPHY: The terrain consists of pahoehoe flows.

VEGETATION: Christmas-berry, koa-haole, grass, and kiawe.

ELEVATION: c. 405 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 16.50 m at 220 degrees Az. by 14.50 m. The site complex consists of a platform (Feature A), a terrace (Feature B), an enclosure and a rock mound (Feature C), a filled pahoehoe excavation (Feature D) and a wall (Feature E).

FEATURE A: Platform

FUNCTION: Agriculture

DIMENSIONS: 4.90 m by 4.40 m by 0.55 m

DESCRIPTION: Generally circular shape in plan, it is raised on all edges. The platform is constructed of pahoehoe boulders and cobbles loosely stacked and crumbling at the edges. The interior surface is not smooth or level; the middle area is lower than the edges and may have been mined for material. A small stacked bench on the west side of the platform may have been some type of step. This bench measures 1.12 m (N-S) by 1.03 m (E-W).

FEATURE B: Terrace

FUNCTION: Agriculture

DIMENSIONS: 6.80 m by 3.80 m by 0.60 m

DESCRIPTION: This rectangular terrace is 2.00 m south from Feature A. It is constructed with a perimeter of stacked

pahoehoe boulders and cobbles, raised on the east side. The terrace interior is paved with small pahoehoe cobbles. No cultural deposit present but a dark brown loam, 0.02-0.04 m thick, was visible under the pavement.

FEATURE C: Enclosure and mound

FUNCTION: Agriculture

DIMENSIONS: 4.30 m by 3.00 m by 0.30 m

DESCRIPTION: The enclosure is immediately west of Feature B. It is constructed with loosely stacked pahoehoe cobbles and boulders. The southwest wall of the enclosure has large pahoehoe boulders which could have been upright, suggesting a higher wall. The rock mound measures 3.7 m by 1.90 m and is 1.30 m high. It is built with large pahoehoe cobbles and boulders.

FEATURE D: Filled pahoehoe excavation

FUNCTION: Agriculture

DIMENSIONS: 1.30 m by 1.10 m by 0.60 m

DESCRIPTION: Feature D is located adjacent to the north side of Feature C. It consists mostly of excavated pahoehoe blocks that have been haphazardly scattered and filled with pahoehoe cobbles.

FEATURE E: Wall

FUNCTION: Boundary

DIMENSIONS: 6.70 m by 1.20 m by 0.70 m

DESCRIPTION: Feature E is immediately west of Feature C. It is oriented N-S and constructed with pahoehoe cobbles and boulders, stacked three to four courses high.

SITE NO.: State: 13479 **PHRI:** T-262

SITE TYPE: Wall

TOPOGRAPHY: Gently sloping pahoehoe

VEGETATION: Kiawe, lantana, and Christmas-berry

ELEVATION: c. 390 feet

CONDITION: Fair

INTEGRITY: Good

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Land division

DIMENSIONS: 50.00 m by 0.70 m

DESCRIPTION: This loosely stacked wall is oriented NW-SE.

SITE NO.: State: 13480 **PHRI:** T-35

SITE TYPE: C-shape

TOPOGRAPHY: Broken pahoehoe

VEGETATION: Sparse ilima and grasses.

ELEVATION: c. 15 feet

CONDITION: Poor

INTEGRITY: Collapsed and ill-defined

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Habitation/ agriculture

DESCRIPTION: This C-shape is in very poor condition; measurements have not been obtained to date.

SITE NO.: State: 13481 **PHRI:** T-65

SITE TYPE: Pahoehoe excavation

ELEVATION: c. 67 feet

CONDITION: Good

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DIMENSIONS: 3.00 m by 2.00 m by 0.00 m

SITE NO.: State: 13482 **PHRI:** T-87

SITE TYPE: Pahoehoe excavation

ELEVATION: c. 194 feet

FUNCTIONAL INTERPRETATION: Quarry

SITE NO.: State: 13483 **PHRI:** T-92

SITE TYPE: Pahoehoe excavation

ELEVATION: c. 230 feet

FUNCTIONAL INTERPRETATION: Quarry

SITE NO.: State: 13484 **PHRI:** T-108

SITE TYPE: Complex (6 Features)

TOPOGRAPHY: Gentle north to south slope with bedrock outcropping.

VEGETATION: Thick elephant and another specie of grass.

ELEVATION: c. 125-130 feet

CONDITION: Fair

INTEGRITY: Unaltered

PROBABLE AGE: Prehistoric

FUNCTIONAL INTERPRETATION: Agriculture

DESCRIPTION: The overall complex area measures 28.40 m at 102 degrees Az. by 18.65 m. Features identified include a terrace (Feature A) and five modified outcrops. The modified outcrops have been excavated in many places around the edges. Angular cobbles and boulders have been stacked on the sides and top of the outcrops. Some of the areas appear to have been paved or with leveled tops.

Portable remains consists of a small waterworn basalt cobble.

FEATURE A: Terrace

FUNCTION: Agriculture

DIMENSIONS: 5.38 m by 4.42 m by 0.75 m

DESCRIPTION: The terrace is rectangular shape in plan. It is constructed on the west side and abutting a large outcrop. Utilizing the exposed bedrock, the east border of

the feature is a high wall of bedrock, partially excavated to create a more vertical face. Portions of the north and south boundaries are small to large angular cobbles and boulders stacked on exposed bedrock. The west boundary consists of medium to large angular boulders aligned and stacked with small cobbles used as fill on top of and along the interior edge. The west wall is quite collapsed, but remnants of facing is still evident.

The terrace itself is raised above the natural ground surface 0.60-0.85 m and has a thick soil deposit (c. 0.20 m) with charcoal flecks. The terrace soil area measures 3.25 m (N-S) by 1.96 m (E-W).

SITE NO.: State: 13485 **PHRI:** T-110
SITE TYPE: Mound
ELEVATION: c. 163 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13486 **PHRI:** T-111
SITE TYPE: Pahoehoe excavation
ELEVATION: c. 160 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13487 **PHRI:** T-125
SITE TYPE: Complex (5 Features)
TOPOGRAPHY: The terrain consists of upthrust of pahoehoe forming tube or ridgeline.
VEGETATION: Fountain grass, 'ilima, Christmas-berry, and sparse kiawe.
ELEVATION: c. 12 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: The overall complex area is estimated at 40.0 m (N-S) by 10.0 m (E-W). Five pahoehoe excavations were identified. The site in proximity to SIHP Site No. 13287, a cave site.

FEATURE A: Pahoehoe excavation
FUNCTION: Agriculture
DIMENSIONS: 1.30 m by 0.51 m by 0.50 m
DESCRIPTION: A linear excavation along a crack at the base of pahoehoe tumulus. It is located at 3.00 m at 226 degrees Az. to Feature B and 40.00 m at 310 degrees Az. from SIHP Site No. 13287 (cave entrance). Feature A is a shallow excavation with the quarried material removed except for one block which may possibly be collapse from above.

FEATURE B: Pahoehoe excavation
FUNCTION: Agriculture
DIMENSIONS: 2.05 m by 0.70 m by 0.68 m
DESCRIPTION: Feature B is a linear excavated edge of a shallow lava blister. A small scattering of excavated cobbles and small boulders are present at the down slope edge of the excavation. A kukui nut shell and a waterworn basalt pebble were noted 3.5 m (inside of the blister) from the excavated edge.

The lava blister is at the base of the pahoehoe tumulus. It is very low, 0.26 to 0.50 m interior height, and extends for 8.00 m around the base of the tumulus. No structural modifications were noted within the blister.

FEATURE C: Pahoehoe excavation
FUNCTION: Agriculture
DIMENSIONS: 1.25 m by 0.60 m by 0.60 m
DESCRIPTION: A blister type of pahoehoe excavation situated at the base of pahoehoe tumulus in the center of a fairly flat lava slab. It is 40.0 m at 310 degrees Az. from SIHP Site No. 13287. Feature C is a shallow excavation with many small blocks and cobbles at the bottom of the excavation. Moist dark brown soil also present in the excavation.

FEATURE D: Pahoehoe excavation
FUNCTION: Agriculture
DIMENSIONS: 2.10 m by 1.25 m by 0.73 m
DESCRIPTION: An excavation quarried at the base of a pahoehoe tumulus into a smooth pahoehoe surface adjacent to a small patch of ropy pahoehoe. The excavated materials are scattered on the surface primarily to the south and east end of the excavation. The excavated thickness is 0.30-0.45 m.

FEATURE E: Pahoehoe excavation
FUNCTION: Agriculture
DIMENSIONS: 2.10 m by 1.30 m by 0.55 m
DESCRIPTION: A blister type pahoehoe excavation with the quarried boulders piled primarily on the southwest side. A 0.10 m thick deposit of small cobbles and pebbles mixed with a reddish organic silt is present on the downslope (northwest) side of the excavation. The depth at the northwest corner is 0.31 m; depth is 0.46 m at the southeast corner and 0.55 m at the southwest corner.

SITE NO.: State: 13488 **PHRI:** T-131
SITE TYPE: Complex (2 Features)
TOPOGRAPHY: Pahoehoe flow.
VEGETATION: Grass, kiawe, koa-haole, succulent, and
 lantana.
ELEVATION: c. 210 feet
CONDITION: Fair
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: Overall complex area measures 7.60 m
 at 228 degrees Az. by 3.60 m. A pahoehoe excavation
 (Feature A) and a paved area (Feature B) were identified.

FEATURE A: Pahoehoe excavation
FUNCTION: Agriculture
DIMENSIONS: 5.60 m by 1.65 m by 0.28 m
DESCRIPTION: An excavated pahoehoe ledge filled with
 pahoehoe cobbles and pebbles. It is northeast and adjacent
 to Feature B.

FEATURE B: Paved area
FUNCTION: Agriculture
DIMENSIONS: 5.00 m by 3.60 m by 0.00 m
DESCRIPTION: Feature B is a pavement consisting of a
 single layer of pahoehoe cobbles and gravel. It has no
 perimeter definition.

SITE NO.: State: 13489 **PHRI:** T-145
SITE TYPE: Terrace
TOPOGRAPHY: Gently sloping pahoehoe
VEGETATION: Thick Christmas-berry, lantana, grasses
ELEVATION: c. 304 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DIMENSIONS: 1.75 m by 1.00 m by 0.50 m
DESCRIPTION: The terrace is situated on the northwest
 side of an outcrop.

SITE NO.: State: 13490 **PHRI:** T-146
SITE TYPE: Pahoehoe excavation
ELEVATION: c. 315 feet
FUNCTIONAL INTERPRETATION: Agriculture

SITE NO.: State: 13491 **PHRI:** T-147
SITE TYPE: Complex (8 Features)
ELEVATION: c. 319 feet
CONDITION: Good
INTEGRITY: Unaltered
PROBABLE AGE: Prehistoric
FUNCTIONAL INTERPRETATION: Agriculture
DESCRIPTION: This site complex consists of eight
 pahoehoe excavations. The quarried material is piled into
 mounds nearby or adjacent to the excavations.

SITE NO.: State: 7276
SITE TYPE: The Great Wall of Kuakini
TOPOGRAPHY: Undulating terrain
VEGETATION: Koa-haole, kiawe, and grasses
CONDITION: Poor-fair
INTEGRITY: Unaltered
PROBABLE AGE: Historic
FUNCTIONAL INTERPRETATION: Agriculture/land
 division
DIMENSIONS: 300.0 m by 200.0 m by 1.5-2.5 m height
 (approx.)
DESCRIPTION: This wall is a portion of the Great Wall
 of Kuakini. "The Great Wall (Hawaii State Register of
 Historic Places Site No. 50-10-xx-7276) is a historic period
 structure built at the direction of Kuakini, Governor of
 Hawaii Island, during the period A.D. 1830-1840...it extends
 c. 5.6 miles (9.0 KM.) from the nearby land of Keahuolu to
 the north, to the land of Kahaluu to the south" (Rosendahl
 1979:2).

The Great Wall appears to originate along the SSE
 portion of the project area and is situated between 220-
 300 ft elevation. Beginning c. at the 220 ft elevation level,
 it extends east for c. 300.0 m. At the 290 ft elevation level,
 it turns south for c. 200.0 m and continues beyond the
 southern boundary of the project area.

The wall is consists of stacked large angular and sub-
 angular boulders. It is faced along the interior and exterior
 faces and is collapsed and broken along some sections.

APPENDIX B

HISTORICAL DOCUMENTARY RESEARCH

by Helen Wong Smith, B.A.

The project area is located in the ahupua'a of Keahuolu. Pukui et al. (1974:101) gives the literal translation of Keahu-o-Lu as "the heap of Lu." Although there is no explanation, we can assume "Lu" is a person's name and that the heap may refer to an altar (another meaning of ahu). Emerson surveyed the area in the 1880s, and his map (Reg. Map 1280) denotes "rough pahoehoe, little vegetation" in Keahuolu ahupua'a. Probably the place name refers to one of the many rock piles scattered throughout the region.

The project area is owned by Liliuokalani Trust. The Trust was established on Dec. 2, 1909 by the last reigning Queen of Hawaii, Liliuokalani, to provide care for orphans and destitute children in Hawaii. The Deed of Trust was amended on Oct. 11, 1911, and again on Sept. 2, 1915. The purpose of the Trust, as amended, is as follows:

...All the property of the trust estate, both principal and income, which shall not be required for any of the special provisions or payments in this instrument before mentioned, shall be used by the Trustees for the benefit of orphan and other destitute children in the Hawaiian Islands, the preference to be given to Hawaiian children of pure or part aboriginal blood (Liliuokalani Children's Center 1981b).

The original Corpus of the Trust consisted principally of real estate in Hawaii with a market value at date-of-grant of \$328,000.00. Income of the Trust is derived principally from rentals received from long-term leases and gain on condemnation or sale of such real estate. The Trust is exempt from Federal income tax under Section 501 (c) (3) of the IRS Code, but is subject to a 2% excise tax based on net investment income, which is imposed on private foundations by Section 4940 of the Code (Liliuokalani Children's Center 1981a).

Legendary references to Keahuolu are few. In his report on a reconnaissance survey of the Old Kona Airport area, which is now a state park in Keahuolu, Neller cites one:

The area around the old Kona airport may also have some connection with the legendary Hawaiian chief Kualii'i. He was said to have been born at Kalapawai in Kailua, and defied the oppression of Lono-ikaika during the dedication of the heiau at Kawaluna. He is associated with Ku-kaili-moku,

the god of victory in battle. Perhaps by coincidence, all of these place names are found in the beach park area (Neller 1980).

Handy writes of the Kona district:

The most interesting mythological and legendary materials relating to Kona have to do directly or indirectly with Lono....The story of the origin of the Makahiki rain and harvest festival, bring Lono from Kahiki, whither he returns. From Kona we have the written record of a myth of Kumuhonua, [Earth Foundation, 36 generations before Wakea and Papa, who was the first man fashioned by the gods] whose writer says that Lono was a fisherman and yet ends his story by stating that the events related occurred before men peopled the earth. Lono is credited with introducing the main food plants, taro, breadfruit, yams, sugar cane and bananas to Hawaii and also 'awa. Hogs were likewise identified with Lono, but there is no mention of his having brought them to Hawaii (Handy and Handy 1972:522).

Two archaeological surveys conducted in the earlier part of the century describe several prehistoric sites in and around the project area. During a reconnaissance survey of Keahuolu, J.F.G. Stokes located the following religious structures:

Ko'a of Kalepau, in Halepa'u Section, Land of Keahuolu, North Kona. A small fishing heiau on the pahoehoe, 100 feet north-west of Keahuola. Well preserved walls, 4 feet high. (Site #10-27-2139.)

Heiau of Kawaluna, land of Keahuolu, North Kona, on the beach, a quarter mile from the boundary of Lanihau, in a section (ili) called Pawai. An enclosure, the walls of which have been carefully rebuilt, without opening. The interior was filled with loose stones piled up without arrangement. The local informant stated that an old fisherman was in the habit of offering fish in this heiau. Asked as to the resulting luck, the answer was that it was not as much as that of other fishermen, perhaps because the offering was made at a heiau instead of the ko'a (Halepa'u) nearby.

Heiau of Palihiolo, at Waikilohi, at or near the boundary of Keahuolu and Lanihau, North Kona; on the beach in an old coco-palm grove; this is an insignificant pen, 25 by 29 feet in size with small, thin walls built on the upper slopes of the beach. Coral has been spread over the floor as a paving. The only interest attaching to the place is the account given by a very old native living in the grove. He said that Palihiolo was formerly a heiau for human sacrifice, and that it was rebuilt by Kalakaua's orders before the latter left for the United States (about 1890). The old native also said that Kalakaua promised to have a sacrifice at Palihiolo on his return from America, but that he died in that country. The old native was very insistent on the truth of his statements. It might be mentioned that the surrounding grove of palms is where Kalakaua's grandfather was hanged for murder. Other information from the old native is given here for convenience, that this king ordered the rebuilding of the two heiaus of Kawaluna and Palihiolo where human sacrifices were formerly offered, and the ko'as of Halepa'u and Maka'eo....It might be remarked that these four structures have the appearance of having been rebuilt in recent times (Stokes 1919).

In reference to heiau committed to human sacrifice, Kamakau (1976) writes that these 'ohi'a ko "...would...cause holding the breath (in fear)."

An island-wide description of sites was published by Henry Kinney in the earlier part of this century. He writes of the shoreline of Keahuolu as follows:

From the point where the Honokohau Trail leaves Kailua a poor trail leads makai over the lava to the lighthouse. Hence it continues along the beach for a couple of miles. After passing several old stone mausoleums, the trail passes an abandoned grass house where is a stone wall, the remnants of the heiau Keohuulu. Still further north is a cocoanut grove, where there were several heiau, notably that of Palihiolo. There were several kuula here, one particularly powerful one, the idol of which is still remembered as having been in a fair state of preservation, only one arm missing, when a Christian priest took it from the cave where it was kept. Since then, say the inhabitants, the fishing has been comparatively poor. In the grove are two cocoanut stumps which served as gallows for the first execution conducted by hanging in Hawaii. A chief, Kekuakahaku, was the victim.

Beyond the main [coconut] grove are a few isolated trees near the edge of the flow. Here was the heiau of Pauai, and here the trail ends (Kinney 1913).

The area in which the Pauai heiau is located is known as Pawai. John Clark (1985) believes that the original name for the bay was Papawai, but attempts to substantiate this name have been futile.

MAHELE LAND OWNERSHIP AND CULTIVATION

During the reign of Kamehameha III, the most important event in the reformation of the land system was incorporated. "The Great Mahele" separated and defined the undivided land interests of the King and the high-ranking chiefs and konohiki (originally konohiki referred to the person in charge of a tract of land on behalf of the king or a chief; in the later statutes, the chiefs or landlords were referred to as "konohikis") (Chinen 1958:vii and Chinen 1961:13). More than 240 of the highest ranking chiefs and konohiki in the kingdom joined Kamehameha III in this division. The first mahele was signed on Jan. 27, 1848 by Kamehameha III, and for Princess Victoria Kamamalu by her guardians Mataio Kekuanaoa and Ione Ii. The last mahele was signed by the King and E. Enoka on March 7, 1848 (Chinen 1958:16).

The mahele did not convey any title to any land. The chiefs and konohiki were required to present their claims to The Land Commission and to receive awards for the lands quitclaimed to them by Kamehameha III. Until an award for these lands was issued, title remained with the government. Because there were few surveyors at the time of the Mahele, the lands were divided by name only, with the understanding that the ancient boundaries would remain in effect until a survey of such lands could be made in the future. This was done to expedite the work of the Land Commission in awarding lands to the chiefs and konohiki. However, these chiefs and konohiki were still required to pay commutations to the government for them to receive Royal Patents on their awards. These lands awarded to the chiefs and konohiki became known as Konohiki Lands (Chinen 1961:13).

Lands were identified and separated in 1848 as Crown Lands (for the occupant of the throne), Government Lands, and Konohiki Lands. These were all "subject to the rights of native tenants" (Laws of Hawaii 1848:22). These rights were brought into question when the King, the government, and konohiki began selling off parcels of land. To clarify the situation, the Privy Council, on December 21, 1849,

adopted four resolutions as a means of protecting the rights of native tenants (Chinen 1958:29). These resolutions authorized the Land Commission to award fee simple title to all native tenants who occupied and improved any portion of Crown, Government, or Konohiki Lands. Except for the houselots located in the districts of Honolulu, Lahaina, and Hilo, these awards were to be free of commutation (ibid).

Before receiving awards for their lands from the Land Commission, the native tenants were required to prove that they actually cultivated those lands for a living. They were not permitted to acquire waste lands or lands which they cultivated "with the seeming intention of enlarging their lots." Once confirmed, the lands were required to be surveyed before the Land Commission was authorized to issue any award. These lands became known as "Kuleana Lands" (Chinen 1958:30). Until its dissolution on March 31, 1855, the Land Commission issued thousands of awards to the native tenants for their kuleana. Even so, less than 30,000 acres of land were awarded to the native tenants as kuleana lands.

The ahupua'a of Keahuolu was awarded to Ane Keohokalole (d. 1857), who numbered among her offspring King David Kalakaua, Queen Lydia Liliuokalani, and William Pitt Leleiohoku (who was adopted by Ruth Keelikolani). Her youngest daughter, Miriam Likeleke, was the mother of Kaiulani, who was proclaimed heir apparent in 1891 after her aunt, Liliuokalani, took the throne following the death of Kalakaua. Keohokalole was the great-granddaughter of Kameeiamoku, one of the most important of the chiefs supporting Kamehameha I. Approximately half of the lands that Keohokalole received in the Mahele were on the island of Hawaii, and two-thirds of those were lands in Kona District (Kelly 1983:31).

Part of the project area is a portion of LCA 8452, Apana 12 (Royal Patent 6851). This parcel had a total area of 4,071 acres. Keohokalole commuted some of her holdings in order to keep certain lands, including Keahuolu. Excerpts from her correspondence with the Minister of the Interior provide us with this information:

To Highness, John Young
Minister of Interior

Greetings:

This is to inform you and the Privy Council of my desire to convey some of my lands for the Governments one third in the land which remain as mine. Grant me this, of course, with the approval

of the Privy council. Below is a list of the lands I wish to convey to the government (Native Test. 10:326).

To Your Highness, John Young
Minister of Interior

Greetings:

Here is a list of names of my lands which has been left for me pending for an approval of its distribution.

...Keahuolu ahupuaa, Kona, Hawaii...

With appreciation,
A. Keohokalole (Native Test. 10:327)

The following testimony was given by Awahua, to verify Keohokalole's holdings for this LCA in Kona:

Awahua, sworn, says he knows the house lots claimed by Keohokalole at Kaawaloa, Hawaii. The first one is fenced all round with a stone wall. It is bounded makai by the sea shore, on Kailua side by the Government land, mauka by the land of Nahaku, and Awahua, and on the other side by the road. Claimant derived this lot from her ancestors, who held it from very ancient times. There is a stone house and several grass houses in it belonging to claimant, besides a tomb.

The second lot is called "Awili," and is fenced all round. It is bounded makai by government road, on Kailua side by the same, mauka the same, on the side next the pali by the road.

Claimant derived this lot from her ancestors, who held it from older times.

Witness knows the three house lots in Kealakekua, claimed by Keohokalole. The first lot is called "Kulou" and is fenced in. It is bounded makai by the sea beach, Kaawaloa side by government land, mauka by the road, south Kona side by a lot belonging to T. Cummings.

The second lot is called "Kaahaloa" [and] it is enclosed all round, and bounded on Kona Hema by a lot belonging to T. Cummings, mauka by the lot of Nakoko, North Kona by an old heiau, makai by the road.

The third lot is called "Wailokoalii" and is bounded on the South Kona side by an old Heiau, mauka by a Government lot and the lot of Ialua, makai by the sea beach, on the other side by a pali.

Claimant inherited these lots from her ancestors by the mother's side, who possessed them from ancient times. Kekaalua, sworn, says he knows these lots perfectly and confirms in full the testimony by Awahua (Foreign Test. 3:573).

Whenever ali'i procured an entire ahupua'a, they were bound to respect the rights of the existing tenants. These tenants, if they filed a claim to The Board of Commissioners to Quiet Land Titles, could continue to cultivate and reside on their parcels. The following testimonies are for awards that were granted within Keahuolu (Board of Commissioners 1929):

LCA 11071, to Aki for .60 acres - Native Test. 4:527 - Kuia sworn, He has seen Aki's land that which he had cultivated himself, it is in the ili land of Pauaiki of Keohoeolu [sic] ahupua'a in Hawaii. Section 1, 5 cultivated kihapais. Section 2, 1 kihapai not cultivated. Section 6, 4 cultivated kihapai. Section 7, 1 cultivated kihapai. These interest have been made from Kaea, Nahaalualu and Kalekahi at the time of Kamehameha I.

LCA 10303, to Maa for 2.25 acres - Native Test. 4:526 - Mahu sworn, He has seen a whole section of land, however, it is just as he has indicated in his claim in that there are 11 taro kihapais, and 10 potato kihapais in the ili land at Maili of Keahuolu ahupuaa. That land is not cultivated completely, but, Maa had planted 7 palm trees. The fruit is for Samuela, both Maa and Samuela have joint interest in the 7 fan palm trees. There is also a coconut grove which had been planted by Maa's grandparents for the Chings who owned the land, they were the caretakers. The same had applied to Maa's parents and to him at the present time. The coconuts went to Keohokalole upon the death of Keoua and it has been that way to the present time.

One whole section is salt land and it is still yielding salt...Land passed down to Maa's parents, these to him now. Maa's grandparents received the ili land Maili of Keahuolu during the time of Kamehameha I. Kamaouha had given to Maa the land section of Lanihau ahupuaa in 1848, no one had objected to him.

LCA 10345, to Nahaalualu (Naalualu) for 2 acres - Native Test. 4:527 - Kuia sworn, He has seen (Naalualu) place that he had cultivated himself in the ili land of Puokaliu of Keahuolu ahupuaa in Hawaii. Section 1 (boundaries given) 1 section cultivated. Section 2, 4 cultivated kihapais, Section 3, 1 cultivated kihapai, Section 4, 4 cultivated kihapais....

LCA 10198, to Hailewalewa (Kailewalewa) for 1.30 ac - Native Test. 4:525 - Mahu sworn, He has seen the place on which Hailewalewa had cultivated with his own hands, it is in Ulelele ili of Keahuolu ahupuaa. Section 1 Taro. Section 2, Kaluulu. Land has been cultivated, 1 land section. On land from Hailewalewa's parents to him. Uncertainty for 1 section.

LCA 8012, to Apiki for 1.10 acre - Foreign Test. 8:676 - Mahu, sworn, says he knows the kuleana of Claimant in Kailua, Kona. It consists of 5 patches of Kalo and a lot of patches of potatoes. The kalo patches form 1 piece, bounded on Kau side by Lanihau, Makai by Papaula's land, Kohala side the same, mauka by Hai's land. The potato land is bounded mauka by Haino's land, Kau side by Lanihau, makai by Kahili's land, Kohala side the same. Claimant derived the land from the Konohiki, before the death of Kuakini, and has held it ever since without disputes.

LCA 7351, to Kahuanui for 2.90 acres - Foreign Test. 8:682 - Papaula, sworn says I know the claim of Kahuanui. It is in the ahupuaa of Keahuolu, Kona. It consists of one piece of kalo land, 5 patches—all lying together. One of these patches is planted with coffee. It is bounded mauka by the land of Kahoohokuhaneole, Kau by Lanihau, Makai by the land Nahaalualu, Kohala by the konohiki. Claimant received this land from his brother in 1846, and his title has never been disputed.

Correspondence to the Minister of the Interior often provides us with insights concerning land use and transactions. In a report by J.H. Kalaiheana, dated April 25, 1866, Keahuolu is said to belong to Keohokalole. In a letter dated July 8, 1869, from David K. Kalakaua to his sister, Liliuokalani, a detailed description of Keahuolu is provided. Kalakaua writes:

This land is situated in the District of North Kona, bounded by the ahupuaa of Lanihau (in Kailua) belonging to Prince Lunalilo on the Ka'u side, and on the Kohala side, by Kealakehe, a government land and Honokohaniki belonging to Keelikolani. Keahuolu runs clear up to the mountains and includes a portion of nearly one half of Hualalai mountains. On the mountains the koa, kukui and ohia abounds in vast quantities. The upper land or inland is arable, and suitable for growing coffee, oranges, taro, potatoes, bananas &c. Breadfruit trees grow wild as well as the Koli oil seed. The lower land is adopted for grazing cattle, sheep, goat, &c. The fishery is very extensive and a fine grove of cocoanut trees of about 200 to 300 grows on the beach. The flat land near the sea beach is composed chiefly of lava, but herbs and shrubbery grows on it and [it is] suitable for feed of sheep and goats. It is estimated at 15,000 to 20,000 acres or more.

A letter written by Liliuokalani to the Minister of the Interior, dated Oct. 6, 1894, gives permission for a road to run through Keahuolu, and includes orders for the Government to fence in both sides of this road.

On a map drafted by J.S. Emerson in the 1880s (Reg. Map 1280), a narrow band of shading that runs in a north-south direction crosses through Keahuolu. This band is at an approximate elevation of 6,250 to 7,250 ft. In Emerson's Field Notebook sketches, this line is identified as the "Commencement of the Forest." The notebook notes that mauka of the forest line, the land is "lava covered with scattering forest and dense masses of ki [ti] root" (Kelly 1983:58).

In his reconnaissance survey of Keahuolu, Rosendahl (1972) notes: "...the Great Wall of Kuakini...is a historic period structure built during the period A.D. 1830-1840 at the direction of Kuakini, Governor of the Island of Hawaii..." Kelly writes of this Kuakini Wall:

It has long been presumed that this wall was built sometime during the governorship of John Adam Kuakini (1820-1844) to protect the cultivated uplands from the depredations of cattle. However, as the wall is at all points less than a mile from the seacoast, only the food plots in the coastal region would have been protected by it. It probably would have only kept cattle and horses grazing on the kula away from the houses and small gardens along the shoreline (1983:75).

...the Kuakini wall may have been the Pa'aina named as the makai boundary in several claims to land along its course. At times, the wall reaches a height of 8 or 9 feet, which seems unnecessarily high as a barrier to roaming cattle or pigs...The fact that the term used in the register of claims in "papii," which refers to a wall or enclosure for cattle, not pigs, should answer the question of what kind of animal the wall was meant to restrict in the 1840s. Perhaps in more recent years it served other purposes. Why it is located between the coast and the gardens, instead of between the grazing land and the gardens, or why it is so high in places, we can only surmise (1983:76).

In this century there existed a small village of 'opelu fishermen who resided at a coconut grove in Keahuolu. Behind this village, known as Makaeo, were several large brackish water ponds where 'opae ula thrived. These shrimps were used to mix in the palu or chum, used for catching 'opelu. Several springs and one well provided potable water. The village, coconut grove, and all the pools but one were destroyed during the construction of the Old Kona Airport (Clark 1985:110).

Cartographic material depicting Keahuolu was sought at the State Department of Accounting and General Services, Survey Division. Reg. Map 512 (c.1875) shows only a kukui tree and coconut grove at Pohakuloa. A 1929 U.S.G.S. topographic quadrangle, however, indicates a sisal mill located in Keahuolu (See Figure B-1). Kelly briefly discusses this crop in her history of the Gardens of Kona (1983:89). She places its cultivation in Kona with the following quote from Thrum (1905:185): "The McWayne sisal tract consisted of about 500 acres at or near Kailua." Kelly adds, "...how much of this acreage was actually planted in sisal is unclear." In an attempt to locate the cultivated area, various articles were consulted and informant interviews conducted.

Early periodical reports concentrate on sisal cultivating efforts on Oahu. The earliest mention of McWayne found is in "History from our Files," which reports for 1918 that "[t]en tons of baled sisal, first of an estimated crop of 200 tons from the McWayne Estate, Kailua, Kona, reached Honolulu for transshipment to San Francisco" (Advertiser July 31, 1948: editorial page). Herman D. Nichols, vice president of Tubbs Cordage Co., suggested in an editorial that utilization of sisal fiber of wild plants throughout the Territory be explored (Advertiser Sept. 20, 1949).

Mr. Minoru Inaba worked at the sisal mill after finishing the 8th grade, in 1920 and 1921. He said that the mill was

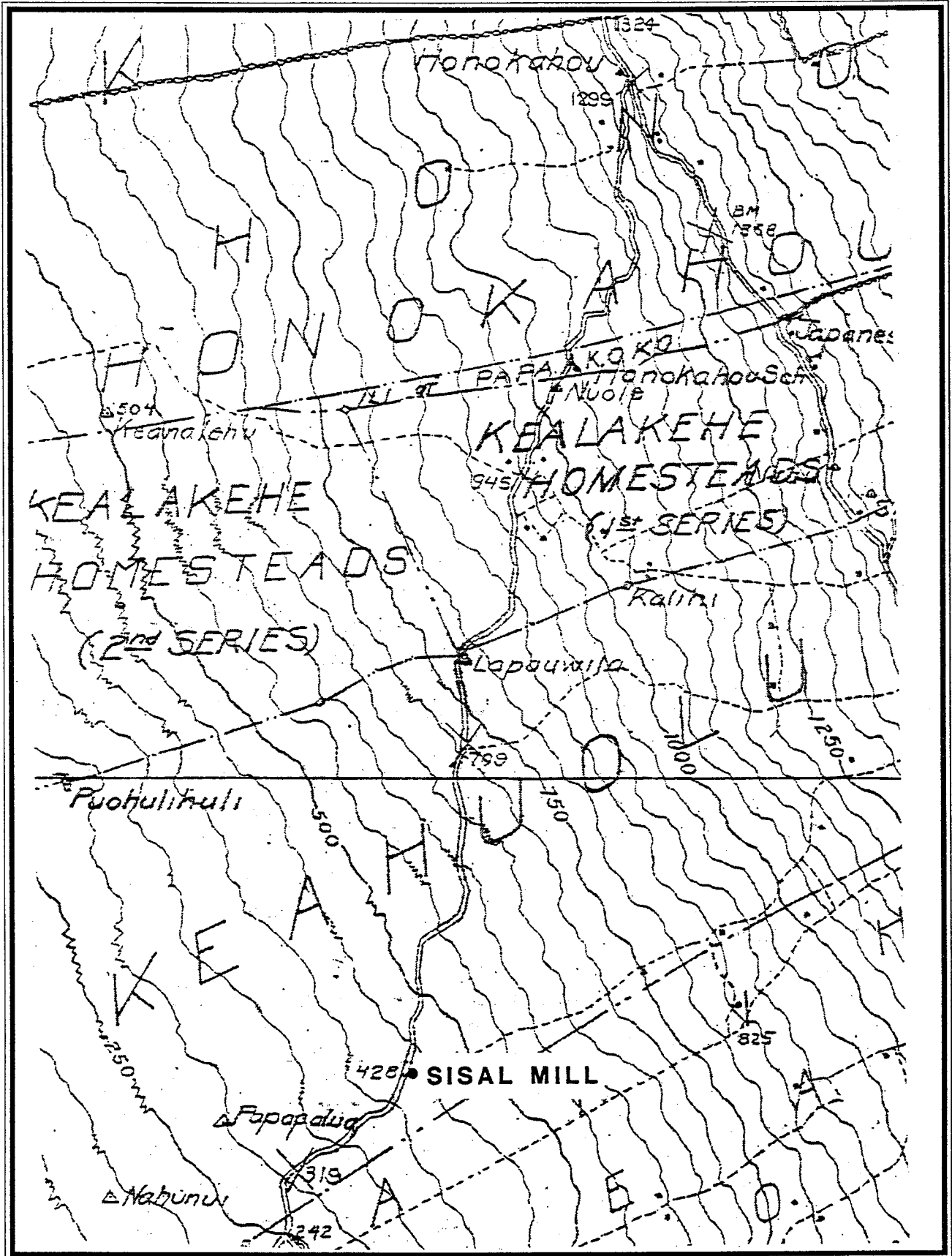


Figure B-1. U.S.G.S. TOPOGRAPHIC MAP SHOWING SISAL MILL

owned and operated by Luther S. Aungst from 1917 to its closing in 1924. He recalls that there were over 1,000 acres in cultivation in the ahupua'a of Kealakehe and Keahuolu. The mill, abutting Palani Road, was surrounded by the sisal fields. The main problem, Mr. Inaba said, was getting the sisal from the fields to the mill, as it was very bulky and sharp. Field workers would cut the sisal in the field, then bundle and transport it on donkeys to the mill. At the mill the sisal was thrashed, dried, and baled. From Kailua Bay, the bales of dried sisal would be sent to San Francisco on steamers.

Mr. Inaba's job was to throw away the by-products. Working with the sisal "made his skin itchy," and he had to wear protective clothing.

According to Inaba, Mr. Aungst played an important role in the development of the Kona district. He started the telephone company that connected Kona with Waimea, and later added Volcano to its line. This phone system was eventually sold to Mutual Telephone Co. Aungst was also the postmaster, and owned a garage in Kona (pers. comm. 2/1/90 and 2/8/90).

Bill Kawahara, a farmer in Waiaha, knows a Mr. Johnnie Long, who was involved in the cultivation of sisal; he hopes to interview Mr. Long for a forthcoming newspaper article. Kawahara noted that McWayne resided at Honokohau, and Aungst at Holualoa. Which of the two owned the mill, and for what years, he did not know (pers. comm. 2/7/90). It is possible that McWayne sold his interests in sisal and the mill to Aungst. A title search for the mill and the areas of cultivation would settle this question.

In a perusal of Tax Map Branch History Sheets dated 1950 to 1983, a navigation easement is noted for TMK 3-7-8:Por. 2 (1950). In 1953, an agreement was made by the trustees to enter the land for purposes of securing the needed engineering and surveying data. For TMK 3-7-8:Por. 12, an access road to a proposed Kealakehe School Site is listed

(1966). In 1969, a centerline for a 10-ft. sewer easement is noted. In 1972, a setup for a 325-ft elevation reservoir site is noted. The Kona Industrial Subdivision appears in 1973, for an area of 22.981 acres. In 1975, a lease to Pay 'N Save Corp., et.al., commences for a period of twenty years.

In the 1981 Status Report for the Trust, expansion of the industrial section is discussed:

A two-year option agreement with Kuakini Corp., which was selected in May as having the most attractive proposal of the five submitted to develop 100 acre expansion of the industrial area, was executed Dec. 8, 1981. The Trust received \$50,000 in payment for the option which allows the developer to prepare his plans to create approximately 76 one-acre industrial lots and to apply to the County for rezoning.

In 1985, the Trust's 74th Annual Report gives an update for Keahuolu (Liliuokalani Children's Center 1985):

The survey of the mauka Kona farmlots was completed by Austin, Tsutsumi & Assoc. As the leased areas on the map differ from the property description in most of the leases, the lessees will be asked to confirm the area leased so that new leases can be prepared.

There were only two responses to the Trustees' request for proposals to develop the entire Keahuolu parcel. The proposal by Santa Cruz Properties, Inc. for a residential development was rejected by the Trustees. It was agreed that a proposal made by the Gentry Companies was unique and that discussions regarding their proposal should continue.

The Kona Industrial Subdivision Unit 5 area was cleared and grubbed, which created a renewed interest in the five unleased lots.

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APPENDIX C

SUMMARY OF IDENTIFIED SITES AND FEATURES

*SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	#CRM Value Mode Assess.			+Field Work Tasks		
			R	I	C	DR	SC	EX
00002	Mamalahoa Trail	Transportation	M/H	H	M	+	-	+
07276	Great Wall of Kuakini	Agriculture- land division	M/H	H	M	+	-	+
13255	Mound	Agriculture	L	L	L	-	-	-
13256	Pahoehoe excavation	Quarry	L	L	L	-	-	-
13257	Filled crevice	Indeterminate	L	L	L	-	-	-
13258	Complex (2)**	Habitation	M	L	L/H	+	+	+
A	Overhang							
B	Cupboard							
13259	Rock scatter	Indeterminate	L	L	L	-	-	-
13260	Complex (6)	Habitation-quarry water catchment	M	M	L	+	+	+
A	Wall							
B	Wall							

*State Inventory of Historic Places (SIHP) numbers. SIHP numbers are four- and five- digit numbers prefixed by 50-10-27 (50=State of Hawaii; 10=Island of Hawaii; 27=USGS 7.5' series quad map ["Keahole Pt., Hawaii"]).

#Cultural Resource Management Value Mode Assessment:

Nature: R = scientific research
 I = interpretive
 C = cultural
 Degree: H = high
 M = moderate
 L = low

+Field Work Tasks:

DR = detailed recording (scaled drawings, photographs, and written descriptions)
 SC = surface collections
 EX = limited excavations

**Number of component features within complex.

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13260 (cont.)								
C	Pahoehoe excavation							
D	Pahoehoe excavation							
E	Filled crevice							
F	Overhang							
13261	Enclosure	Agriculture	M	L	L	-	-	-
13262	Complex (2)	Habitation/ agriculture	M	L	L	+	+	+
A	L-shape wall							
B	Pahoehoe excavation							
13263	Overhang	Possible habitation	L	L	L	-	-	-
13264	Complex (6)	Agriculture	L	L	L	-	-	-
A	Mound							
B	Pahoehoe excavation							
C-F	Mound (4)							
13265	Mound	Agriculture	L	L	L	-	-	-
13266	Complex (3)	Habitation	L	L	L	-	-	-
A	Wall							
B	Alignment							
C	Cave							
13267	Complex (3)	Quarry	L	L	L	-	-	-
A	Pahoehoe excavation							
B	Mound							
C	Mound							
13268	Complex (6)	Habitation- agriculture	M	L	L	+	-	+
A	Enclosure							
B	Terrace							
C	Paved area							
D	Paved area							
E	Walled sinkhole							
F	Filled crevice							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13269	Alignment	Indeterminate	L	L	L	-	-	-
13270	Pahoehoe excavation	Possible quarry	L	L	L	-	-	-
13271	Alignment	Indeterminate	L	L	L	-	-	-
13272	Complex (36+)	Agriculture-quarry	M	L	L	+	-	-
A-P	Pahoehoe excavation (16)							
Q	Mound							
R-X	Pahoehoe excavation (7)							
Y	Terrace							
Z	Boulder concentration							
Aa-Da	Pahoehoe excavation (4)							
Ea	Petroglyph							
Fa	Pahoehoe excavation							
Ga	Mound							
Ha-Ja	Pahoehoe excavation (3)							
13273	Mound	Agriculture	L	L	L	-	-	-
13274	Complex (6)	Agriculture-quarry	M	L	L	+	+	+
A	Pahoehoe excavation							
B	Alignment							
C	Pahoehoe excavation							
D	Pahoehoe excavation							
E	Mound							
F	Pahoehoe excavation							
13275	Cave	Burial	M	M	H	+	+	+
13276	Complex (2)	Quarry	L	L	L	-	-	-
A	Pahoehoe excavation							
B	Pahoehoe excavation							
13277	Complex (8)	Quarry/agriculture	M	L	L	+	+	-
A-H	Pahoehoe excavation							
13278	Complex (2)	Agriculture/quarry	L/M	L	L	-	-	-
A	Mound							
B	Pahoehoe excavation							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13279	Complex (4)	Quarry/agriculture	M	L	L	+	-	+
A-D	Pahoehoe excavation							
13280	Complex (26+)	Temporary habitation-quarry-rock art	M	L	L/M	+	+	+
A	Cave							
B-D	Pahoehoe excavation (3)							
E	Petroglyph							
F	Alignment							
G-L	Pahoehoe excavation (6)							
M-P	Petroglyph (4)							
R	Petroglyph							
S	Petroglyph							
T	Enclosure							
U	Petroglyph							
V	Petroglyph							
W	Mound							
X-Z	Pahoehoe excavation (3)							
Aa	Petroglyph							
13281	Complex (2)	Ceremonial- possible temporary habitation	H	M	M/H	+	-	-
A	Enclosure							
B	C-shape							
13282	Alignment	Indeterminate	L	L	L	-	-	-
13283	Complex (5)	Indeterminate- agriculture	L	L	L	-	-	-
A	Alignment							
-	Pahoehoe excavation (4)							
13284	Complex (4)	Possible marker/ agriculture	L	L	L	-	-	-
A-D	Rock concentration							
13285	Complex (12)	Quarry/agriculture	L	L	L	-	-	-
-	Pahoehoe excavation							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13286	Complex (13)	Marker-agriculture	L	L	L	-	-	-
A	Alignment of cairns (4)							
B	Mound							
C	Alignment							
D	Rock concentration							
E	Mound							
F	Wall							
G	Boulder concentration							
H	Rock concentration							
I	Cairn							
J	Rock concentration							
13287	Cave Complex (6)	Temporary habitation	H	L	L	+	+	+
A	Circular alignment (hearth)							
B	Midden concentration							
C	Midden scatter							
D	Circular alignment (possible hearth)							
E	Midden scatter							
F	Terrace							
13288	Retaining wall/ terrace	Loading ramp	L	L	L	-	-	-
13289	Complex (15)	Quarry/agriculture	M	L	L	+	-	-
A-O	Pahoehoe excavation							
13290	Complex (6)	Quarry/agriculture	M	L	L	+	-	-
A-F	Pahoehoe excavation							
13291	Complex (6)	Quarry/agriculture	M	L	L	+	-	-
A-F	Pahoehoe excavation							
13292	Complex (18)	Quarry/agriculture	L	L	L	-	-	-
-	Pahoehoe excavation							
13293	Complex (9)	Quarry/agriculture	L	L	L	-	-	-
A	Alignment							
-	Pahoehoe excavation (8)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13294	Complex (73)	Agriculture	M	L	L	+	+	+
A	Cairn							
B	Alignment							
C-E	Pahoehoe excavation (3)							
F	Block pile							
G-I	Pahoehoe excavation (3)							
-	Pahoehoe excavation (64)							
13295	Complex (10)	Quarry	M	L	L	+	-	-
A-I	Pahoehoe excavation (9)							
J	Displaced quarried rocks							
13296	Complex (13)	Quarry	L	L	L	-	-	-
-	Pahoehoe excavation							
13297	Complex (9)	Quarry	L	L	L	-	-	-
-	Pahoehoe excavation							
13298	Complex (7)	Agriculture/ quarry	M	L	L	-	-	-
A	Cairn							
B	Rubble concentration							
C	Linear mound							
D	Filled crevice							
E	Pahoehoe excavation							
F	Linear mound							
G	Filled crevice							
13299	Terrace	Agriculture	M	L	L	-	-	-
13300	Complex (18)	Temporary habitation- quarry/agriculture	M	L	L	-	+	+
A	Enclosure (4)							
B	Overhang							
C	Modified sinkhole							
D	Overhang							
E	Overhang							
-	Pahoehoe excavation (10)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13301	Complex (2)	Agriculture	L	L	L	-	-	-
A	Terrace							
B	Angular cobble concentration							
13302	Complex (7)	Habitation- quarry	L/M	L	L	+	-	-
A	Cave							
B	Overhang							
C	Overhang							
-	Pahoehoe excavation (4)							
13303	Cave	Storage	L	L	L	-	-	-
13304	Pahoehoe excavation	Quarry	L	L	L	-	-	-
13305	Pahoehoe excavation	Quarry	L	L	L	-	-	-
13306	Complex (12)	Agriculture	L/M	L	L	+	-	-
-	Pahoehoe excavation							
13307	Pahoehoe excavation	Possible agriculture	L	L	L	-	-	-
13308	Trail	Transportation	L	L	L/M	+	-	-
13309	Terrace	Agriculture	M	L	L	+	-	-
13310	Alignment	Indeterminate	L	L	L	-	-	-
13311	Complex (2)	Possible agriculture	L	L	L	-	-	-
-	Pahoehoe excavation							
13312	Terrace	Agriculture	L	L	L	-	-	-
13313	Pecking marks	Indeterminate	L	L	L	-	-	-
13314	Pahoehoe excavation	Quarry/ possible agriculture	L	L	L	-	-	-
13315	Rubble wall	Indeterminate	M	L	L	+	-	-

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13316	Complex (8)	Quarry	L	L	L	-	-	-
-	Pahoehoe excavation							
13317	Pavement	Indeterminate	L	L	L	-	-	-
13318	Modified blister	Possible agriculture	L	L	L	-	-	-
13319	Pahoehoe excavation	Quarry	L	L	L	-	-	-
13320	Modified blister	Indeterminate	L	L	L	-	-	-
13321	Boulder concentration	Indeterminate	L	L	L	-	-	-
13322	Trail section	Transportation	M	L	L	+	-	-
13323	Trail	Transportation	M	L	L	+	-	-
13324	Complex (10)	Quarry	M	L	L	+	-	-
-	Pahoehoe excavation							
13325	Terrace	Agriculture	M	L	L	-	-	-
13326	Platform	Agriculture	M	L	L	-	-	-
13327	Complex (2)	Quarry	L	L	L	-	-	-
-	Pahoehoe excavation							
13328	Cave	Habitation	M/H	L	L/M	+	+	+
13329	Complex (2)	Habitation- agriculture	L	L	L	-	-	-
A	Cave							
B	Enclosure							
13330	Complex (11)	Agriculture- modern habitation	L/M	L	L	+	-	-
-	Cave							
-	Pahoehoe excavation (10)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13331	Complex (33)	Agriculture	M	L	L	+	-	+
-	Pahoehoe excavation (24)							
-	Wall							
-	Linear mound (7)							
-	Pahoehoe excavation							
13332	Complex (12)	Agriculture	M	L	L	+	-	+
-	Pahoehoe excavation (5)							
-	Mound (2)							
-	Alignment (5)							
13333	Wall	Possible agriculture	M	L	L	+	-	-
13334	Complex (24+)	Agriculture	M	L	L	+	+	+
A	Cairn, terrace (3)							
-	Modified outcrop (16+)							
-	Modified blister (4+)							
13335	Complex (18)	Ariculture	M	L	L	+	-	-
A	Terrace							
B	Platform							
-	Modified outcrop (11)							
-	Mound (5)							
13336	Complex (30+)	Agriculture	M	L	L	+	-	+
-	Modified outcrop (25)							
-	Pahoehoe excavation (5+)							
13337	Complex (34+)	Agriculture	M	L	L	+	-	+
A	Modified outcrop (5)							
B	Platform							
C	Modified outcrop							
D	Modified outcrop							
-	Modified outcrop (26+)							
13338	Complex (4)	Agriculture	L	L	L	-	-	-
-	Modified outcrop (2)							
-	Modified blister							
-	Terrace							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13339	Complex (36+)	Agriculture- habitation	M	L	M	+	+	+
A	Platform with terrace							
B	Stepped terrace							
C	Excavated blister							
D	Double terrace							
E	Terrace							
F	Wall							
G	Terrace							
H	Rubble mound							
I	Platform with enclosure							
J	Cave							
K	Terrace							
-	Pahoehoe excavation (25+)							
13340	Complex (7)	Agriculture- habitation-poss. ceremonial	M	L	L/H	+	+	+
A	Terrace							
B	Upright (3)							
C	Enclosure							
D	Terrace							
E	Modified blister							
F	Terrace							
G	Platform							
13341	Modified outcrop complex	Agriculture	L	L	L	-	-	-
13342	Complex (5)	Agriculture- habitation	L/M	L	L	+	-	+
A	Mound							
B	Paved area (3)							
C	Terrace							
13343	Complex (3)	Agriculture- habitation/possible burial	M/H	L/M	M	+	-	+
A	Pahoehoe excavation							
B	Pahoehoe excavation							
C	Platform							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13344	Complex (3)	Agriculture	L/M	L	L	+	-	+
A	Pahoehoe excavation with alignment (2)							
B	Pahoehoe excavation							
13345	Complex (2)	Agriculture	L	L	L	-	-	-
-	Pahoehoe excavation							
-	Alignment							
13346	Complex (13)	Agriculture	M	L	L	+	-	-
A-H	Mound (8)							
I-M	Pahoehoe excavation (5)							
13347	Pahoehoe excavation	Agriculture	L	L	L	-	-	-
13348	Complex (5+)	Quarry-marker- recreation-transportation- temporary habitation	M	L	L	+	+	+
A	Pahoehoe excavation							
B	Cairn (2)							
C	<u>Papamu</u>							
D	Paved pathway							
E	Cave							
13349	Wall	Land division	M	M	M	+	-	-
13350	Complex (11)	Habitation-burial	H	M	H	+	+	+
A	Large blister cave							
B	Terrace							
C-E	Cave (3)							
F	Enclosure							
G	Enclosure							
H	Cave							
I	Enclosure							
J	Terrace							
K	Enclosure							
13351	Complex (6+)	Quarry	M/H	L	L	-	+	+
A	Cave							
B	Pahoehoe excavation							
C	Pahoehoe excavation (5)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13351 (cont.)								
D	Pahoehoe excavation (3)							
E	Pahoehoe excavation							
F	Pahoehoe excavation							
13352	Complex (10)	Quarry/agriculture	M	L	L	+	+	+
A	Pahoehoe excavation							
B	Pahoehoe excavation							
C	Mound							
D-J	Pahoehoe excavation (7)							
13353	Complex (3+)	Rock art- agriculture-bathing	M	L	L	+	-	-
A	Petroglyph (+)							
B	Modified pond							
C	Modified pond							
13354	Pahoehoe excavation	Agriculture/ quarry	L	L	L	-	-	-
13355	Complex (3)	Possible quarry- agriculture	M	L	L	+	-	-
A	Cairn							
B	Pahoehoe excavation							
C	Modified outcrop							
13356	Pahoehoe excavation	Agriculture	L/M	L	L	+	-	-
13357	Complex (8)	Agriculture	M	L	L	+	-	-
-	Cairn							
-	Cave							
-	Pahoehoe excavation (6)							
13358	Complex (3)	Agriculture/quarry	M	L	L	+	-	-
-	Pahoehoe excavation							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13359	Complex (3)	Burial/habitation- agriculture	M	L	H	+	+	+
A	Cave							
B	Cave							
C	Modified outcrop							
13360	Complex (5)	Burial-quarry	M	L	H	+	+	+
A	Cave							
B	Pahoehoe excavation (4)							
13361	Modified outcrop	Agriculture	L/M	L	L	-	-	-
13362	Complex (35+)	Agriculture	M	L	L	+	-	-
-	Modified outcrop complex (24+)							
-	Pahoehoe excavation (9+)							
-	Wall section (2)							
13363	Complex (11)	Agriculture	L	L	L	-	-	-
-	Modified outcrop (8)							
-	Rubble concentration (2)							
-	Pahoehoe excavation							
13364	Complex (10)	Agriculture/ poss. habitation	M	L	L	+	+	+
A	Platform							
-	Modified outcrop (6)							
-	Pahoehoe excavation (2)							
-	Mound							
13365	Complex (4)	Agriculture- habitation	M	L	L	+	-	+
A	Terrace							
B-D	Mound (3)							
13366	Complex (7)	Agriculture	L	L	L	-	-	-
-	Modified outcrop (5)							
-	Linear mound (2)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13367	Terrace	Agriculture	L	L	L	-	-	-
13368	Complex (45)	Agriculture/ poss burial - transportatiion	M	L	M	+	-	+
A	Terrace							
B	Terraced outcrop							
C	Wall							
D	Modified outcrop/terrace							
E	Wall							
F	Trail section							
G	Trail section							
-	Modified outcrop (26)							
-	Mound (8)							
-	Pahoehoe excavation (4)							
13369	Complex (7)	Agriculture	L	L	L	-	-	-
-	Pahoehoe excavation							
13370	Mounded wall [P]@	Agriculture	M	L	M	+	-	-
13371	Platform [P]	Possible habitation	M/H	M	M	+	-	+
13372	Complex (10) [P]	Agriculture- habitation-quarry	H	M	H	+	+	+
A	Platform							
B	Enclosure							
C	Cairn							
D	Mound (3)							
E	Pahoehoe excavation							
F	Terrace							
G	Pahoehoe excavation							
H	Pahoehoe excavation							
13373	Complex (10+) [P]	Agriculture-habit.- poss. ceremonial-poss. burial	H	M/H	M/H	+	-	+
-	Enclosure							
-	C-shape wall							
-	Midden scatter							
-	Terrace							
-	Mound (2)							
-	Wall							
-	Mound (2)							

@[P]=Site located within boundaries of preserve area, feature-specific recording not conducted during this project.

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13373 (cont.)								
-	Additional rock mound (+)							
-	Pahoehoe excavation (+)							
13374	Complex (2) [P]	Agriculture/ land division	M	M	M	+	-	-
-	C-shape wall							
-	Wall							
13375	Complex (3) [P]	Agriculture/ habitation	H	M	M	+	-	+
A	Platform							
B	Platform							
C	Terrace							
13376	Platform [P]	Habitation/ possible burial	H	M	M/H	+	-	+
13377	Complex (3)	Habitation-burial	H	L	H	+	+	+
A-C	Lava tube cave							
13378	Complex (2)	Agriculture	L	L	L	-	-	-
-	Pahoehoe excavation							
13379	Complex (8+)	Agriculture- possible burial	M	L	M	+	-	-
A	Modified outcrop							
B	Pahoehoe excavation							
C	Modified outcrop							
D	Terrace (2)							
E	Pahoehoe excavation							
F	Alignment							
G	Terrace							
H	Wall							
13380	Complex (5) [P]	Agriculture- habitation	H	M	M	+	+	+
A	Platform							
B-D	Wall (3)							
E	Cave							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13381	Enclosure [P]	Agriculture	M	M	M	+	-	-
13382	Enclosure [P]	Agriculture	M	M	M	+	-	-
13383	Complex (3) [P]	Habitation/ agriculture	H	M	M	+	-	+
A	Platform							
B	Enclosure							
C	Wall							
13384	Complex (3) [P]	Habitation/ agriculture	H	M	M	+	-	+
A	Platform							
B	Wall							
C	Wall							
13385	Wall [P]	Land division	M	M	M	+	-	-
13386	Complex (49)	Agriculture/ poss. habitation	M	M	L	+	-	-
A	Walled overhang							
B	Cave							
C	Cairn							
D	Cairn							
E	Modified blister							
-	Pahoehoe excavation (44)							
13387	Complex (3)	Habitation	H	L	L	+	+	+
A-C	Cave							
13388	Pahoehoe excavation	Agriculture	L	L	L	-	-	-
13389	Complex (2)	Agriculture	L	L	L	-	-	-
-	Pahoehoe excavation							
13390	Complex (15) [P]	Agriculture- habitation	H	M/H	M/H	+	-	+
A	Platform							
B	Enclosure							
C	Wall							
D-F	Terrace (3)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13390 (cont.)								
G	Mound (4)							
H	Terrace							
I	Platform							
J	Linear mound (3)							
13391	Lava tube cave [P]	Habitation	H	L	L	+	+	+
13392	Platform [P]	Possible burial	H	M	M/H	+	-	+
13393	Platform [P]	Habitation	H	M	M	+	-	+
13394	Alignment [P]	Indeterminate	M	L	M	+	-	-
13395	Platform [P]	Possible burial	H	M	M/H	+	-	+
13396	Platform [P]	Habitation	H	M	M	+	-	+
13397	Complex (5) [P]	Agriculture	M	L	M	+	-	-
A-E	Terrace							
13398	Complex (4) [P]	Habitation/ agric./poss. burial	H	M	M/H	+	-	+
A	Platform							
B	Wall							
C	Cairn							
D	Cairn							
13399	Terrace [P]	Agriculture	M	L	M	+	-	-
13400	Complex (2) [P]	Agriculture/ land division	M	M	M	+	-	-
A	Wall							
B	Enclosure							
13401	Complex (2) [P]	Agriculture/ land division	M	M	M	+	-	-
A	Wall							
B	Terrace							
13402	Wall [P]	Land division	M	L	M	+	-	-

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13403	Modified cave	Habitation	H	L	L	+	+	+
13404	Enclosure	Agriculture/ possible habitation	M	M	M	+	-	+
13405	Complex (15+)	Agriculture	M	L	L	+	-	-
-	Pahoehoe excavation							
13406	Pahoehoe excavation	Agriculture	L	L	L	-	-	-
13407	Complex (2) [P]	Agriculture	M	L	L	+	-	-
A	Mound							
B	Pahoehoe excavation							
13408	Complex (19+) [P]	Agriculture- poss. hab./ poss. ceremonial	H	M/H	M/H	+	+	+
A	Platform							
B	Terrace							
C-E	Wall (3)							
F	Enclosure							
G	Enclosure							
H	Wall							
I	Wall							
J	Pahoehoe excavation (10+)							
13409	Complex (9) [P]	Agriculture/ habitation/poss. burial	H	H	M/H	+	-	+
A	Platform							
B	Wall							
C	Enclosure							
D-F	Terrace							
G	Platform							
H	Platform							
I	Wall							
13410	Platform [P]	Habitation	H	M	M	+	+	+
13411	Complex (4) [P]	Agriculture/ land division	M	M	M	+	-	-
A	Wall							
B	Wall							
C	Mound							
D	Wall							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13412	Complex (2) [P]	Agriculture	M	M	M	+	-	-
A	Enclosure							
B	Terrace							
13413	Platform [P]	Habitation	H	M	M	+	-	+
13414	Complex (20+)	Agriculture	M	L	L	+	-	-
-	Pahoehoe excavation							
13415	Terrace	Agriculture	M	L	L	+	-	-
13416	Complex (2)	Agriculture	M	L	L	+	-	+
-	Rubble wall with terrace							
-	Wall							
13417	Pahoehoe excavation	Agriculture	M	L	L	+	-	-
13418	Pahoehoe excavation	Agriculture	M	L	L	+	-	-
13419	Pahoehoe excavation	Agriculture	M	L	L	+	-	-
13420	Complex (8)	Agriculture	M	L	L	+	-	-
-	Rock mound							
13421	Complex (18+)	Agriculture- habitation	M	L	L	+	-	-
A-C	Cairn (3)							
D	Cave							
-	Pahoehoe excavation (10+)							
-	Paved area (4)							
13422	Complex (8+)	Agriculture	M	L	L	+	-	-
-	Pahoehoe excavation (7+)							
-	Cairn							
13423	Complex (80)	Agriculture- temporary habitation	H	M	M	+	+	+
-	Mound (59)							
-	Pahoehoe excavation (8)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13423 (cont.)								
-	Modified outcrop (8)							
-	Alignment (2)							
-	Overhang							
-	Modified cave							
-	Modified pahoehoe blister							
13424	Complex (3)	Agriculture	L	L	L	-	-	-
A	Pahoehoe excavation							
B	Modified outcrop							
C	Cairn							
13425	Complex (4)	Agriculture- habitation	M	L	L	+	-	+
A	Modified blister							
B	Modified outcrop							
C	Cave							
D	Mound							
13426	Roadbed	Transportation	L	L	L	-	-	-
13427	Complex (17)	Agriculture	M	L	L	+	-	-
A-C	Mound (3)							
-	Pahoehoe excavation (10)							
-	Mound (4)							
13428	Complex (43)	Agriculture	M	L	L	+	-	-
A-E	Faced mound (5)							
F	Alignment							
G	Platform							
H	Terrace							
-	Pahoehoe excavation (25)							
-	Mound (10)							
13429	Complex (9)	Agriculture	M	L	L	+	-	+
A	Terrace							
B	Terrace							
C	Modified blister							
D-I	Mound (6)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13430	Complex (15)	Agriculture- habitation	M	L	L	+	-	+
A	Platform							
B	Mound							
C	Mound							
-	Pahoehoe excavation (5)							
-	Mound (6)							
-	Collapsed blister							
13431	Complex (6)	Agriculture- habitation	M/H	M	M	+	+	+
A	Cave							
B	Enclosure							
C	Enclosure							
D	Pahoehoe excavation							
E	Pahoehoe excavation							
F	Terrace and alignment							
13432	Mound	Agriculture	L	L	L	-	-	-
13433	Cairn	Indeterminate marker	L	L	L	-	-	-
13434	Complex (4)	Agriculture	M	L	L	-	-	-
A	Faced mound							
B	Faced mound							
C	Pahoehoe excavation							
D	Faced mound							
13435	Complex (10)	Agriculture	M	M	M	+	-	+
A-F	Enclosure (6)							
G	L-shape wall							
H	Modified outcrop							
I	Modified outcrop							
J	Enclosure							
13436	Wall	Land division	M	M	M	+	-	-
13437	Complex (7)	Agriculture-marker	M	M	M	+	-	+
A	Stepped terrace							
B	Pavement							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13437 (cont.)								
C	Faced outcrop							
D	Terrace							
E-G	Cairn (3)							
13438	Complex (10)	Agriculture- transportation	M	M	M	+	-	+
A	Terrace							
B	Mound							
C	Terrace							
D	Terrace							
E	Pahoehoe excavation							
F	Terrace							
G	Trail							
H	Roadbed							
I	Mound							
J	Cairn							
13439	Cairn	Indeterminate marker	L	L	L	-	-	-
13440	Complex (3)	Agriculture	M	L	L	+	-	-
A	Terrace							
B	Filled crevice							
C	Pahoehoe excavation							
13441	Complex (20)	Agriculture- habitation	H	H	M	+	+	+
A	Platform							
B	Terrace							
C	Platform							
D	Platform							
E	Terrace (4)							
F-H	Terrace (3)							
I	Wall remnant							
J	Platform							
K	Platform							
L	Wall							
M	Mound							
N	Platform							
O	Platform							
P	Cave							
Q	Enclosure							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13442	Alignment	Indeterminate	L	L	L	-	-	-
13443	Complex (16)	Agriculture	M	L	L	+	-	-
-	Large mound (5)							
-	Small mound (7)							
-	Cairn (2)							
-	Linear mound							
-	Alignment							
13444	Complex (5)	Agriculture	M	L	L	-	-	-
A	Pahoehoe excavation							
B	Mound (4)							
13445	Complex (5)	Habitation- recreation	H	M/H	M/H	+	+	+
A	Cave							
B	Cave							
C	Papamu and trail section							
D	Platform							
13446	Complex (37)	Agriculture- habitation	M	L	L	+	-	-
A	Alignment							
B	Terrace							
-	Mound (8)							
-	Modified blister (17)							
-	Pahoehoe excavation (9)							
-	Terrace							
13447	Complex (19)	Agriculture- poss. habitation	M	L	L	+	-	+
A	Platform							
-	Filled blister (9)							
-	Pahoehoe excavation (6)							
-	Modified blister (3)							
13448	Complex (7)	Agriculture	M	L	L	+	-	+
-	Pahoehoe excavation							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13449	Complex (3)	Habitation- transportation- possible ceremonial	M	L	M	+	-	+
A	Lava tube cave							
B	Cairn							
C	Steppingstone trail							
13450	Steppingstone trail	Transportation	M	L	M	+	-	-
13451	Cave	Habitation	M	L	L	+	+	+
13452	Paved trail	Transportation	M	L	M/H	+	-	-
13453	Pavement	Agriculture	L	L	L	-	-	-
13454	Complex (14)	Agriculture	M	L	L	+	-	-
-	Pahoehoe excavation (11)							
-	Mound (3)							
13455	Complex (13+)	Agriculture	M	L	L	+	-	-
-	Modified outcrop							
-	Mound (6+)							
-	Pahoehoe excavation (5+)							
-	Cairn							
13456	Terrace	Agriculture	M	L	L	+	-	-
13457	Complex (4)	Agriculture- possible habitation	M	L	L	+	-	+
A	Cairn							
B	Enclosure							
C	Terrace							
D	Pahoehoe excavation and cupboard							
13458	Complex (5)	Habitation- recreation	H	M	M	+	+	+
-	Lava tube cave (3)							
-	Papamu (2)							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13459	Complex (2)	Habitation- possible burial	M	L	L/H	+	+	+
A	Cave							
B	Modified outcrop							
13460	Faced mound	Agriculture	M	L	L	+	-	-
13461	Stepped terrace	Agriculture	M	L	L	-	-	-
13462	Complex (4)	Agriculture- possible habitation	M	L	L	+	-	+
A	Modified outcrop							
B	Alignment							
C	C-shape wall							
D	Enclosure							
13463	Complex (5)	Ceremonial- burial- temp. hab- transportation	H	H	H	+	-	+
A	Enclosed platform							
B	Cave							
C	Cave							
D	Trail							
E	Pavement							
13464	Complex (8)	Agriculture	M	L	L	+	-	-
A	Alignment/wall							
B	Enclosure (2)							
C	Cairn							
D	Pahoehoe excavation (3)							
E	Mound							
13465	Complex (8)	Habitation/ agric./ceremonial	H	M	M	+	-	+
A	Platform							
B	Terrace with upright							
C	Wall remnant							
D	Wall remnant							
E	Pavement with upright							
F	Pahoehoe excavation and lava tube							
G	Pavement							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13466	Terrace	Agriculture	M	L	L	+	-	-
13467	Complex (9+)	Agriculture	M	L	L	+	-	-
A	Pahoehoe excavation (6+)							
B	Terrace							
C	Terrace							
D	Mound							
13468	Enclosure	Agriculture	M	L	L	+	-	-
13469	Complex (6)	Indeterminate marker	L	L	L	-	-	-
A-F	Cairn							
13470	Petroglyph	Rock art	L	L	L	-	-	-
13471	Complex (3)	Agriculture- temp. habitation	M	L	L	+	-	+
A	Upright (+)							
B	Platform							
C	Cave							
13472	Complex (164)	Agriculture	M	L	L	+	-	-
-	Pahoehoe excavation (144)							
-	Modified blister (16)							
-	Mound (3)							
-	Alignment							
13473	Complex (73)	Agriculture	M	L	L	+	-	-
-	Phh. exc. with associated rock pile (68)							
-	Linear mound (2)							
-	Terrace							
-	Filled blister							
-	Upright							
13474	Modified cave	Habitation	M	L	L	+	-	+
13475	Cleared blister	Agriculture	L	L	L	-	-	-

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13476	Complex (10)	Agriculture	M	L	L	+	-	-
-	Pahoehoe excavation							
13477	Complex (4)	Agriculture/ poss. habitation	M	L	L	+	-	+
A	Enclosure (2)							
B	C-shape wall							
C	Mound							
13478	Complex (6)	Agriculture	M	L	L	+	-	+
A	Platform							
B	Terrace							
C	Enclosure and mound							
D	Filled pahoehoe excavation							
E	Wall							
13479	Wall	Land division	M	L	M	+	-	-
13480	C-shape	Habitation	L/M	L	L	-	-	-
13481	Pahoehoe excavation	Agriculture	L	L	L	-	-	-
13482	Pahoehoe excavation	Quarry	L	L	L	-	-	-
13483	Pahoehoe excavation	Quarry	L	L	L	-	-	-
13484	Complex (6)	Agriculture	M	L	L	+	-	+
A	Terrace							
B-F	Modified outcrop (5)							
13485	Mound	Agriculture	L	L	L	-	-	-
13486	Pahoehoe excavation	Agriculture	L	L	L	-	-	-
13487	Complex (5)	Agriculture	L/M	L	L	-	-	-
A-E	Pahoehoe excavation							
13488	Complex (2)	Agriculture	M	L	L	+	-	-
A	Pahoehoe excavation							
B	Paved area							

SUMMARY OF IDENTIFIED SITES AND FEATURES (cont.)

SIHP Site No.	Formal Site/Feature Type	Tentative Functional Interpretation	CRM Value Mode Assess.			Field Work Tasks		
			R	I	C	DR	SC	EX
13489	Terrace	Agriculture	M	L	L	-	-	-
13490	Pahoehoe excavation	Agriculture	L	L	L	-	-	-
13491	Complex (8)	Agriculture	M	L	L	+	-	-
-	Pahoehoe excavation with associated mound							