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Archaeological Testing (Phase II) of Prehistoric Site 41BX785 for the West Salado Creek Outfall Project, Bexar County, Texas

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Archaeological Testing (Phase II) of Prehistoric Site 41BX785 for the West Salado Creek Outfall Project, Bexar County, Texas

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**ARCHAEOLOGICAL TESTING (PHASE II) OF
PREHISTORIC SITE 41 BX 785 FOR THE
WEST SALADO CREEK OUTFALL PROJECT,
BEXAR COUNTY, TEXAS**

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**CENTER FOR ARCHAEOLOGICAL RESEARCH
THE UNIVERSITY OF TEXAS AT SAN ANTONIO
ARCHAEOLOGICAL SURVEY REPORT, NO. 182**

1989

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PREHISTORIC SITE 41 BX 785 FOR THE WEST SALADO CREEK
OUTFALL PROJECT, BEXAR COUNTY, TEXAS**

Ronald W. Burkett

Texas Antiquities Committee Permit No. 737

Center for Archaeological Research
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The following information is provided in accordance with the General Rules of Practice and Procedure, Chapter 41.11 (Investigative Reports), Texas Antiquities Committee:

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ABSTRACT

During October and November 1988, subsurface testing (Phase II) was conducted at prehistoric site 41 BX 785, found in the West Salado Creek Outfall pipeline easement during a pedestrian survey (Phase I) of the project area. The Phase II limited testing determined that the subsurface portion of the prehistoric site is essentially intact, and at least two stratified occupation levels were identified. Although the tests did not produce diagnostic (datable) cultural materials, there is a notable amount of stone tool debitage in the central area, some unidentified biface fragments and burned rock which probably represents displaced hearth stones. We believe the site to be potentially eligible for consideration as a State Archeological Landmark and for nomination to the National Register of Historic Places. Because the site lies within the pipeline easement and will be impacted by the installation of the pipeline, and since it is a potentially significant cultural resource, we recommend that the site be considered for mitigation.

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INTRODUCTION

During August 1988, a pedestrian survey was conducted within the West Salado Creek Outfall pipeline easement in southeast San Antonio, Bexar County, Texas (Burkett and Huebner 1989). As a result of that survey, one prehistoric site (41 BX 785) was recorded (Fig. 1). Surface examination and limited subsurface testing indicated buried cultural resources but of undetermined significance. Therefore, it was recommended that further testing would be needed for assessment of the potential significance of the site.

During the last week of October and the first week in November 1988, personnel from the Center for Archaeological Research (CAR), The University of Texas at San Antonio (UTSA), spent six days in the subsurface testing of that portion of 41 BX 785 transected by the 50-foot-wide West Salado Creek Outfall pipeline easement (Fig. 2). The work was conducted under contract between Seligmann and Pyle Consulting Engineers, Inc., and the CAR-UTSA. The purpose of the testing was to determine the potential of the site to be designated as a State Archeological Landmark and for potential eligibility to be nominated to the National Register of Historic Places. This site could be particularly important because of the paucity of undisturbed ground along Salado Creek and south of the Balcones Escarpment.

The investigation was carried out by CAR-UTSA staff members, Ronald W. Burkett (project director), Maureen Brown, and Clinton McKenzie with the assistance of UTSA students John Harris, Nora De La O, Debbie Ellis, and Duke Smith. The project was conducted under Texas Antiquities Committee Permit No. 737. All work was completed under the general direction of Jack D. Eaton, CAR acting director. All field notes, photographs, and other information pertinent to this project are curated at the CAR-UTSA.

ARCHAEOLOGICAL BACKGROUND

Human occupation in the central Texas area extends back at least 11,000 years (Hester 1980:131). Archaeological evidence of this occupation is organized into several generally accepted, broadly defined, cultural periods. A brief summary of these major periods or sequences (Turner and Hester 1985) follows.

Paleo-Indian, 9200 B.C.-6000 B.C.: Materially, the Paleo-Indian period is characterized by lanceolate, fluted points like *Clovis* and *Folsom* during the earlier part of the period and later by similar but unfluted points like *Angostura*, *Scottsbluff*, and *Golondrina*. It

is this period that is associated with the hunting of large, now extinct, animals.

Early Archaic, 6000 B.C.-2500 B.C.: Sites attributable to the Early Archaic period can be generally identified when point types such as *Nolan*, *Bell*, *Andice*, *Martindale*, *Uvalde*, *Gower*, *Hoxie*, and *Wells* are included in the artifact collection. All of these points have well-defined stems. Hunting was still a major occupation, as it continued to be into historic times, but more and more time was dedicated to the gathering and processing of vegetal matter.

Middle Archaic, 2500 B.C.-1000 B.C.: Point types within the Middle Archaic period include *Pedernales*, *Langtry*, *Morhiss*, *Marshall*, *Kinney*, and *Tortugas*. It was during this period that burned rock middens became common in the Edwards Plateau area. Also during this period, populations seemed to increase, and sites became more abundant.

Late Archaic, 1000 B.C.-300 B.C.: *Montell*, *Castroville*, *Shumla*, and *Marcos* points are indicative of the Late Archaic period. These points are all relatively large and deeply notched at the base or corners. Bison became an important food source during this period. Other major changes in food collection are signified by a decrease in the use of burned rock middens and the proliferation of specialized tool types, indicating a more diverse range of gathering and processing activities (Prewitt 1981:74).

Transitional Archaic, 300 B.C.-A.D. 700: The Transitional Archaic is recognized by smaller projectile points, including *Ensor*, *Darl*, *Frio*, *Ellis*, *Edgewood*, *Fairland*, and *Figuero*. Lifeways during this period seem to be a continuation of the Late Archaic.

Late Prehistoric, A.D. 700-A.D. 1600: The Late Prehistoric period is characterized by the introduction of the bow and arrow, and projectile points are very small and light. Common types include *Perdiz*, *Fresno*, *Alba*, *Edwards*, *Scallorn*, and *Zavala*. The manufacture of pottery occurs, and sherds are frequently found in sites occupied late in this period.

This rather cursory overview is presented from the standpoint of diagnostic projectile points. It is presented in this manner because the testing slated for this phase of the project was done primarily to define the cultural affiliation of site 41 BX 785.

Since 1974, at least seven survey reports (Hester 1974; Fox 1977; Brown *et al.* 1977; Fox, McGraw, and Valdez 1978; McGraw and Valdez 1978; Gibson, Jones, and Knepper 1982; Snavely, Greco, and Fox 1984) have been published on sites within the Salado Creek watershed. These surveys have been conducted from the Panther Springs Creek area along the Balcones Escarpment in north Bexar County to the Salado Creek and San Antonio River confluence in south Bexar County. Several surface sites, usually in a

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FIELD METHODS

As a result of the Phase I survey, site 41 BX 785 was identified in this segment of the West Salado Creek Outfall project right-of-way (Burkett and Huebner 1989). The purpose of this second phase of the project was to test the site and make a general assessment of its potential importance, to attempt to determine the intensity of the occupation, the period or periods in which the occupation occurred, and what took place during the occupation.

A datum point was designated, horizontal and vertical control was established, and a grid system was laid out. A total of 10 areas was to be dug in one-cubic-meter test pits. All material was to be taken out at arbitrarily controlled levels and screened through 1/4-inch hardware cloth.

Enough chert debitage was recovered from the first two test pits to indicate that the occupation was more than casual. Thereafter, the majority of the field time was used in an effort to find diagnostic artifacts. In support of this effort, six 1-m² test pits were dug in a 16- x 13-m area, and another three half-meter units were dug to establish site parameters (Fig. 2).

EXCAVATIONS AT SITE 41 BX 785

Site 41 BX 785 is located on the west side of Salado Creek and 900 m north of Military Drive (Loop 13). UTM coordinates for the site are 5670 4850. The site is on a low stream terrace approximately 70 m southwest of the modern Salado Creek channel, but within the current floodplain. The elevation for the site is 558.66 feet to 560.53 feet above msl.

Subsurface testing was confined to a 17 x 100 m length of pipeline easement, therefore, the total dimensions for the site are unknown at this time. Approximately 50 m of this easement contains intact cultural remains. Testing indicated that the site occupies some 208 m² within and just outside of the easement. However, the site may extend to the south, between the easement and Villa Vista Drive. This area was not tested but is known to be disturbed by urban development. The site may also extend to the north toward the creek.

As indicated in the "Field Methods" section of this report, six 1-m² units and three half-meter units were excavated. Figure 3 offers a comparison of the lithic debitage, burned rock scatters, and hearth features encountered from the six 1-m² units. Each unit is individually discussed as follows.

Unit E3S1

As the test pit was opened, chert debitage began to appear immediately and increased in density to a depth of 25 cm. At this level there was one layer of golf ball-sized burned limestone fragments. Soil color was dark gray brown, and no change was noted to this depth. The limestone fragments were removed, and Level 1 was established at 25 cm. A total of 116 chert flakes was recovered from Level 1. *Rabdotus* shells and freshwater mollusk shell fragments were present throughout Level 1 but not in any recognizable concentration. Level 2 was from 26 cm to 50 cm. By 50 cm the soil had become a lighter brown, but no definable horizon could be recognized. A total of 17 chert flakes was recovered from Level 2. No burned limestone fragments were noted in Level 2, and there were fewer *Rabdotus* shells. The south half of the test pit was excavated from 51 cm to 75 cm, comprising Level 3. Nine chert flakes were recovered from Level 3, and no burned limestone or *Rabdotus* shells were noted. The soil continued to lighten in color.

Unit E4NO

Unit E4NO produced results very similar to Unit E3S1 except that a biface fragment was recovered from Level 2.

Unit E2S13

Unit E2S13 was excavated and bagged at 25-cm increments. Recovered from the first 25 cm were 29 chert flakes. By 40 cm, the soil was noticeably lighter. Between 45 and 50 cm, a few burned limestone fragments and an increase in *Rabdotus* shells were noted. A total of 141 chert flakes was recovered between 45 and 50 cm. At 86 cm, a possible hearth feature was identified. Seven, apparently fire reddened, sandstone rocks were laid out in an arc, the base of which was uniformly at 90 cm (Fig. 4,a). A burned chert fragment was found in association with this feature. This fragment appears to be the distal portion of a biface point. A total of 26 chert flakes was found between 76 and 100 cm.

Unit E3S13

Unit E3S13 was excavated in 10-cm levels to provide better control for the adjacent unit (E2S13). See Table 1 for a list of the materials recovered from this unit.

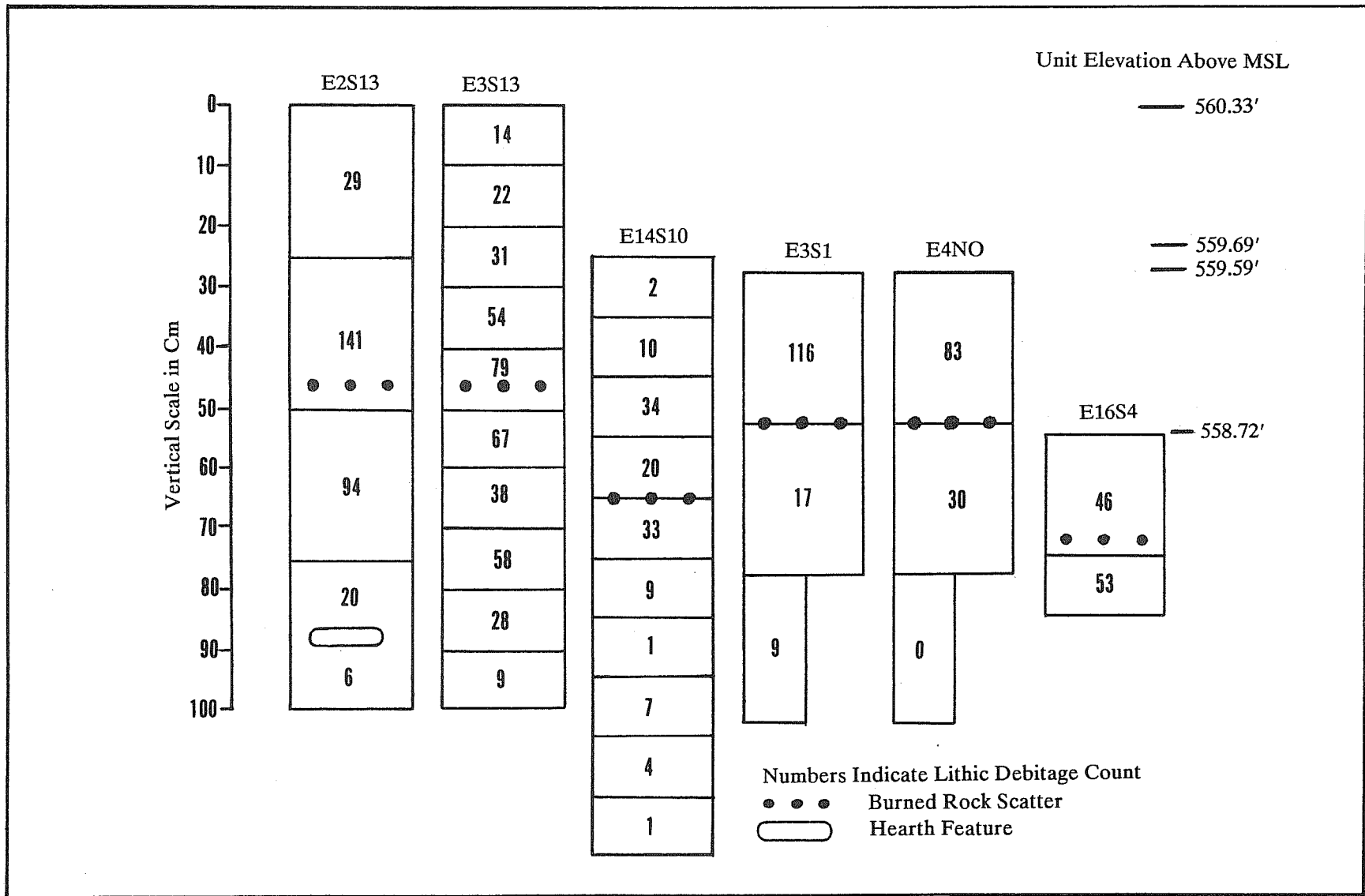


Figure 3. Unit/Level Comparisons of Lithic Debitage, Burned Rock Scatters, and Hearth Features from the Excavated Areas at Site 41 BX 785.

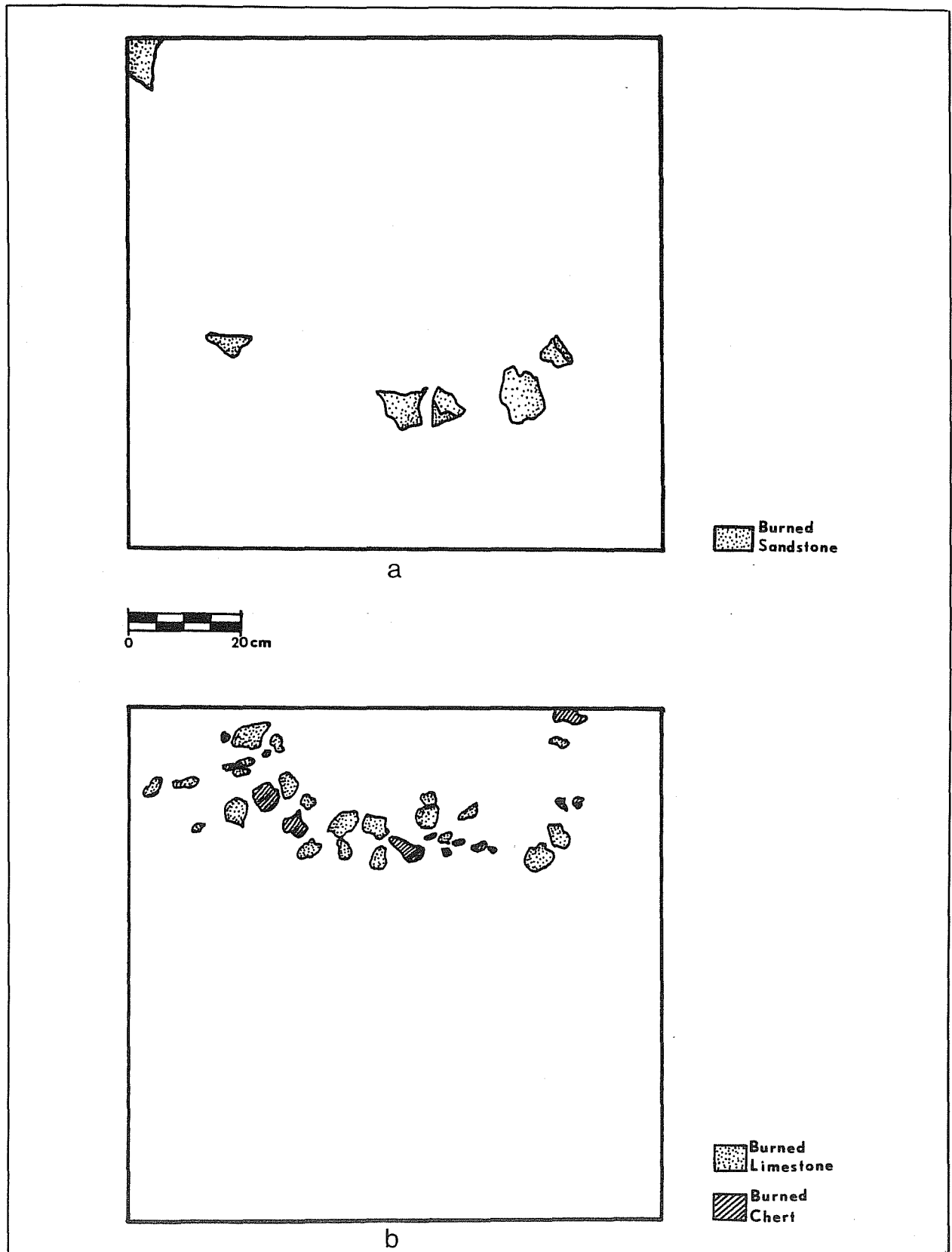


Figure 4. Features at Site 41 BX 785. a, possible hearth in E2S13 at 90 cm below the surface; b, burned rock and chert scatter in E16S4 at 17 cm below the surface.

TABLE 1. MATERIALS RECOVERED FROM UNIT E3S13

Depth	Materials Recovered
0-10 cm	14 chert flakes
11-20 cm	22 chert flakes
21-30 cm	31 chert flakes
31-40 cm	54 chert flakes
41-50 cm	72 chert flakes, including 2 biface fragments. Between 46 and 50 cm was a disproportionate number of chert flakes and Rabdotus shells. A sample of this soil was collected.
51-60 cm	67 chert flakes
61-70 cm	38 chert flakes
71-80 cm	58 chert flakes, including 1 biface fragment
81-90 cm	28 chert flakes
91-100 cm	9 chert flakes

Unit E14S10

Unit E14S10 was excavated in 10-cm levels. A total of 121 chert flakes was recovered; the results were similar to the E3S13 unit if the levels are adjusted to take into account the 25 cm difference in elevation.

Unit E16S4

Burned limestone fragments were found at 17 cm below the surface in Unit E16S4 (Fig. 4,b). A total of 46 chert flakes was recovered between the surface and 20 cm, and 53 chert flakes were recovered between 21 and 30 cm.

Unit E64N0

Unit E64N0 was excavated as a half-meter test unit. No debitage was recovered to a depth of 50 cm.

Unit E26N2

Unit E26N2 was excavated as a half-meter test unit. One biface fragment was recovered at 10 cm. One bicycle handlebar grip was recovered at 25 cm. The unit was excavated to a depth of 50 cm. Evidently this is in a disturbed zone with buried modern trash.

Unit W12S10

Unit W12S10 was excavated as a half-meter test unit. A few chert flakes were recovered to a depth of 50 cm, but no burned limestone fragments were noted.

SUMMARY AND RECOMMENDATIONS

Testing at 41 BX 785 has demonstrated that at least part of the site has intact buried components and at

least two occupation levels. However, no datable diagnostic artifacts were recovered, therefore the cultural/chronological placement of the prehistoric occupations have not been determined.

The site was tested by excavating six 1-m² units and three half-meter units within and just outside the pipeline easement. Excavations began by following natural levels of about 25 cm, then to 10-cm arbitrary levels in adjacent units for finer control. Because of previous surface alterations, surface materials were scarce and were not a reliable indicator of subsurface deposits. Also, it appears that previous surface alterations and perhaps some erosion have removed much of the upper cultural strata at the lower elevations of the site.

When the levels containing burned limestone fragments are compared using the elevation above mean sea level instead of depth below the modern surface (this elevation is 558.96 feet), then all levels align themselves to show a consistency in percentage of debitage at each level (Fig. 3). The greatest amount of debitage per 10-cm increment is found within the 10-cm increment containing burned limestone. The amount of debitage per level decreases with lessening elevation until the level containing the possible hearth feature is reached (557.71 feet above msl). The debitage at this level is a higher percentage of total debitage than either the level above it or the level below it. Therefore at least two distinct occupational levels are postulated.

Because debitage is found at all levels (to an adjusted depth of 1.2 m), it is possible that this site was occupied regularly over a great deal of time. With the total amount of debitage recovered (about 1100 flakes), in addition to 12 biface fragments, the odds of finding diagnostic artifacts should be high. Although cultural material was diminishing at the 1-m depth, where the clayey soil became very hard packed and difficult to work in a small space, the excavations were not carried deeper to verify indisputable sterile underlay. The decision was made to use the time available for a broader examination of the site instead of a deeper excavation.

The results of the testing indicate that 41 BX 785 occupies an area of more than 200 m² within the 50-foot-wide easement. The easement extends east-west and parallel with Salado Creek and Villa Vista Drive. The tests have shown that the site occupies locally elevated topography within the easement (Fig. 2). Tests to the east and west within the easement indicate greatly diminished subsurface cultural materials represented by only a small quantity of scattered chert flakes to delineate the site limits. To the north, outside and downslope from the easement, the recovered materials were somewhat less, but evidently the site extends in that direction.

The higher elevation to the south, between the easement and Villa Vista Drive was not tested, but the site may also extend in that direction. However, development in this area may have impacted the site.

In summary, we can state that 41 BX 785 is a prehistoric site of undetermined date and of uncertain total area. It appears to have been a campsite and workshop as indicated by remnant hearths, mussel shell, chert biface fragments, and lots of chert debitage, evidently the result of making and refurbishing stone implements. Some of the chert flakes were small tools as evidenced by retouch flaking or use-wear. Although several chert biface (small) fragments were recovered, none were diagnostic. The site had at least two occupation episodes as seen in the two distinct stratigraphic levels, each with a living floor area as defined by burned and fractured hearthstone, ashy lenses, freshwater mussel shell fragments, land snail (*Rabdotus*) shells, and relative densities of stone chipping debris.

Unfortunately, the major problem at 41 BX 785 is the lack of diagnostic artifacts and a definitive chronology. The site was a habitation workshop where stone implements were evidently made and refurbished as evidenced by the relatively dense deposits of debitage representing primary, secondary, interior, and thinning flakes. However, it is currently unknown what types and forms of tools or hunting points were made and used. Without this information it is difficult to speculate in a useful way on such things as hunting and gathering strategy and methods of food preparation.

Site 41 BX 785 has intact buried, stratified deposits that have provided useful information through assessment testing. We believe that through further planned mitigative excavations the site is likely to provide important information on the prehistory of southeastern Bexar County. Because the site lies within the pipeline easement it will be impacted by trenching activities. Relatively little information has been assembled from preliminary studies of other prehistoric sites in the general area, and possibly sites have been destroyed in the past through creek channeling and other developments in the project area. This site has the potential to provide a broader data base from which to form meaningful interpretations. Therefore, we consider 41 BX 785 to be potentially eligible for designation as a State Archeological Landmark and for nomination to the National Register of Historic Places.

We recommend that further investigations at 41 BX 785 should include, at a minimum, the opening of at least a 4-m² block excavation centered within the easement in the area where testing has indicated intact buried deposits. Additional smaller tests might also be employed, particularly to the north and south of the

easement where an extension of the site is suspected. The block excavation will provide for a broader horizontal investigation of the stratified deposits (and hopefully provide datable diagnostics and other cultural materials) and will allow investigation to a depth sufficient to determine if there may be deeper buried deposits. We also recommend that a backhoe be employed to selectively trench in or adjacent to the site to document the terrace profile and to record any deeper deposits that might be impacted by the planned pipe trench. We consider this to be a unique opportunity to document an intact stratified site on the lower Salado Creek.

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