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Archaeological Testing of Site 41BL301 Bell County, Texas

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ARCHAEOLOGICAL TESTING OF SITE 41BL301
BELL COUNTY, TEXAS

BY
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Texas
State Department of Highways and Public Transportation
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June 1986

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ABSTRACT

Testing of Site 41BL301 on FM 3467 in Bell County, Texas, was undertaken in May 1986 to assess the site's potential for nomination as a State Archeological Landmark, and to determine site depth, cultural context and archaeological significance. The site is located along a second terrace on the south side of Nolan Creek in the western outskirts of Belton, Texas. The majority of the site lies outside the highway right-of-way along the terrace system. Results of the testing indicate that those portions of the site within the project limit contain a minimal prehistoric component--probably a lithic procurement source--of unknown age which is largely limited to the present ground surface. Subsurface testing with a hand-excavated unit and a Gradall failed to locate buried components.

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INTRODUCTION

Archaeological Site 41BL301 was recorded at the Texas Archeological Research Laboratory of the Balcones Research Center, The University of Texas at Austin, in May 1985 by a member of the State Department of Highways and Public Transportation (SDHPT) cultural resources staff. Following initial evaluation, further investigations and testing were conducted by Wayne C. Young of the SDHPT cultural resources staff with field-support assistance from the SDHPT District 9 Belton residency staff. Testing was conducted on May 27 and 28, 1986.

Testing of Site 41BL301 was performed under the auspices of the Memorandum of Understanding between the SDHPT and the Texas Antiquities Committee. The object of the test was to determine eligibility for State Archeological Landmark status and the cultural significance of the site. A total of 8 man-days was spent testing the site.

Site 41BL301 is located west of Belton, Texas, and east of Camp Kinsolving, and is along the south bank of Nolan Creek (Fig. 1). The site occupies the western limit of a major second terrace system along the south side of the creek and is located at the base of a limestone and flint bluff. Soils consist of a black clay overlying a reddish orange clay atop a light tan silty clay which extends to a depth of 4 meters beneath the present ground surface. Natural impacts on the site include slope wash and flooding from Nolan Creek during monumental floods.

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SITE DESCRIPTION

Site 41BL301 covers about 3 acres along a second terrace system on the south side of Nolan Creek in Bell County, Texas. The terrace is situated between a prominent limestone and flint bluff to the south and Nolan Creek to the north. A slight first terrace is present on the north side of the creek. The width ranges from 20 meters at the western limits where the proposed right-of-way crosses the terrace to 100 meters east of the highway limits. Most of the terrace system has been plowed in the past but is now planted in coastal Bermuda grass; it also has scattered native pecan trees.

The bluff area in the site vicinity is about 50 ft. higher than the terrace. It rises 50 ft. vertically in a 150-ft. horizontal extent, creating a steep slope. Much of the bluff area is exposed limestone and flint nodules, but small cedars and brush manage to grow in areas with soil deposits. The top of the bluff has been cleared and is covered in native grasses, with occasional cedars growing in a very thin soil mantle over limestone bedrock and very numerous flint nodules.

Figure 2 provides a profile along the centerline of the farm-to-market highway. The steepness of the bluff and the narrow width of the terrace are quite apparent in this illustration. The figure also illustrates plans to place 20 ft. of fill atop the site within the right-of-way. During construction there will be no cutting in the area of the site. It should be mentioned that the right-of-way crosses the extreme western limits of the site and terrace.

PROFILE OF FM 3467

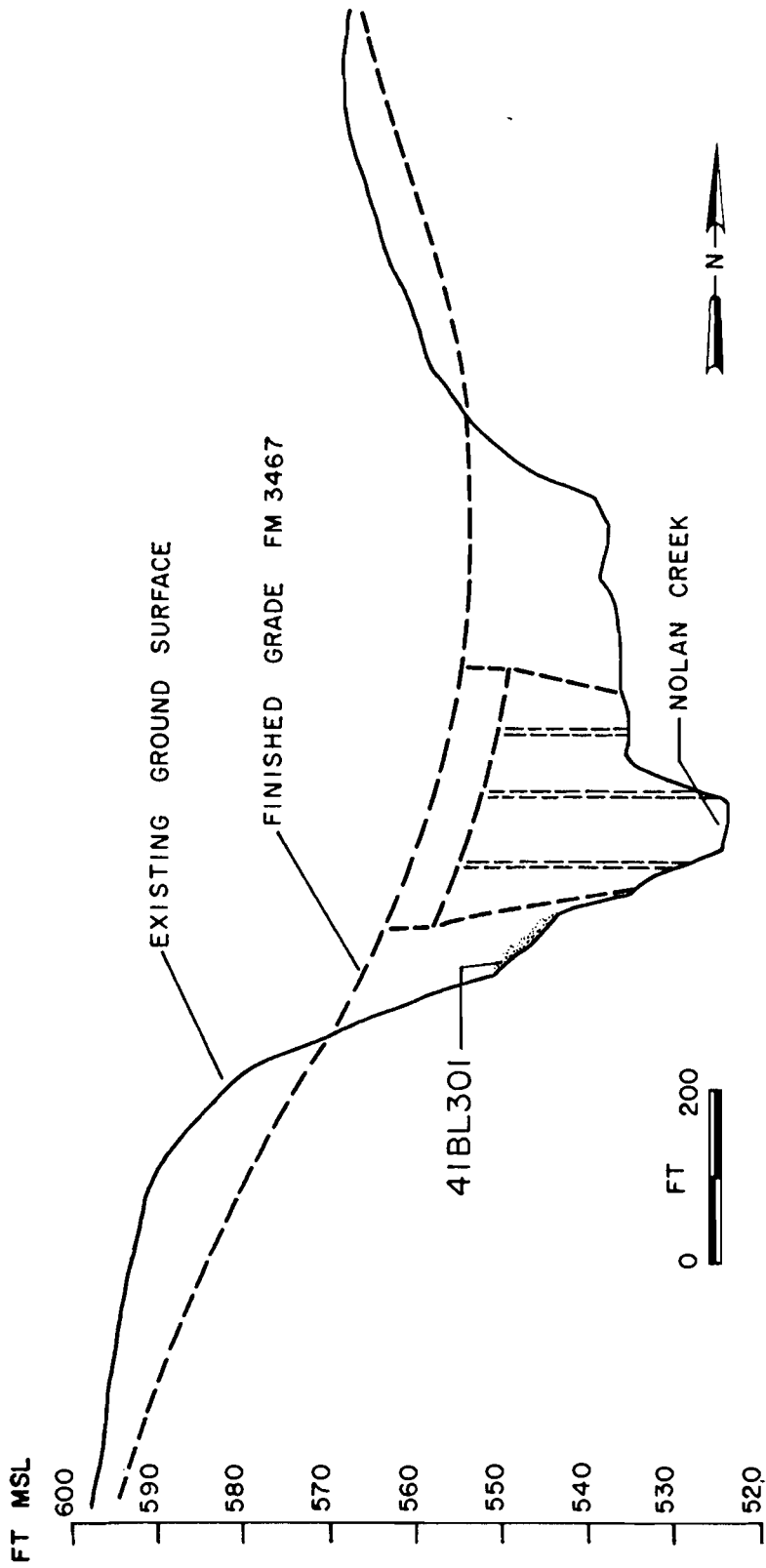


FIGURE 2. Cross-section through Site 41BL301 along centerline of FM 3467.

The ground surface of Site 41BL301 within the highway right-of-way was littered with limestone and natural flint slabs among the native grasses, cedars, and stunted brush. Noted on the surface during the 1985 survey were numerous flint flakes and 2 cores. Surface soils are a black clay common to Central Texas. The Gradall cuts within the right-of-way indicated that this soil was 60 to 70 cm thick and overlying a reddish orange clay with caliche gravels. This zone was 1.3 meters thick and overlying a zone of tan silty clay which extended to a minimum depth of 4 meters beneath the present ground surface (Fig. 3).

The highway construction over Site 41BL301 will involve removing the top of the bluff and placing it over the site area within the right-of-way. Highway construction will preserve rather than destroy the site by placing a 20-ft. thick layer of soil over the sparse cultural deposit at Site 41BL301.

41BL301
WEST PROFILES

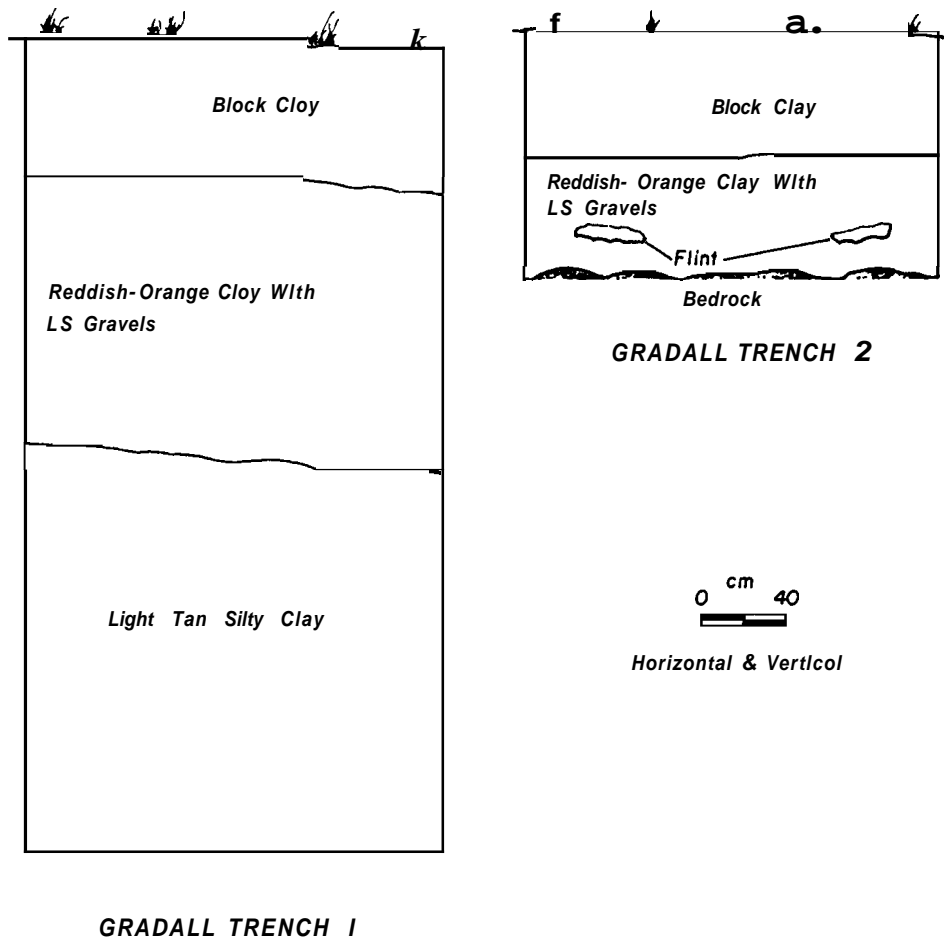


FIGURE 3. Soil profiles of Gradall trenches excavated into Site 41BL301.

PREVIOUS RESEARCH

A considerable amount of archaeological research has been performed in Bell County, Texas. The county is one in the easternmost tier of counties in Central Texas and has been the base of operation for the Bell County Archeological Society since the 1930s. The county also has seen the construction of large-scale federal projects including Fort Hood, Lake Belton, and Stillhouse Hollow Reservoir which allowed for archaeological investigations. Archaeologically, Bell County is one of the better known Central Texas counties and has provided significant information toward our understanding of prehistoric chronologies in this part of Texas.

Information on the prehistory of the county began to be published in the 1930s. Perhaps the earliest reported research was that of Jackson (1935). Several reports were published on the archaeology of Aycock Shelter (Watt 1936; Aynesworth 1936a, 1936b; Lux 1936). Russell (1936) provided an early report on the general archaeology of Bell County, and Watt (1937) reported on a burial site near Little River.

Any publications directly dealing with the archaeology of Bell County during the 1940s have esdaped the writer's attention, and it is assumed that there was a hiatus in research during this decade. The publication of research findings resumed during the 1950s, however.

Holden (1951) issued a report on stone beads from the county and Miller and Jelks (1952) reported on excavations at Belton Reservoir. Forrester (1957) reported an unknown type of implement from the county.

During the 1960s some of the major sites in Bell County were excavated and reported. In 1962 Johnson reported on the survey of Stillhouse Hollow Reservoir (Johnson 1962). Shafer (1963) detailed the findings at the Youngsport Site, a major Early Archaic site in Central Texas. Shafer et al. (1964) published the results of the 1962 testing in Belton Reservoir. Sorrow et al. (1967) detailed their excavations at Stillhouse Hollow Reservoir and presented the first local chronology for the county.

During the 1970s Shafer presented a paper on the late prehistory of the area (1971). Cochran (1974) reported on the Shetland Site. McCormick and Filson (1976) reported on a survey in Copperas Cove, and Dibble (1977) reported a survey on Fort Hood. Thomas (1978) presented an overview of the archaeological resources of Fort Hood.

The major work in bell County during the 1980s has been Fort Hood surveys. Carlson et al. (1983) appear to have produced the most recent publication dealing with the prehistory of Bell County.

TESTING OPERATIONS

Archaeological investigation of Site 41BL301 consisted of surface observations, the hand excavation of 1 unit, and the machine excavation of 2 Gradall trenches. Test excavations were limited to the right-of-way area on the second terrace system.

Surface observations indicated a rather thin and uniform scatter of flint flakes and flint nodules within the right-of-way. There were no obvious concentrations of materials and no exposed features visible. With no indications other than a general scatter of prehistoric debitage to aid in selecting a location for a test unit, an area clear of brush 2 meters east of Centerline Station 89+00 was chosen for testing and a 2-meter square was staked out parallel to the centerline. The unit was excavated in arbitrary 10-cm levels from the present ground surface (Fig. 4). All soils were screened through .25-in. mesh hardware cloth, and cultural materials were retained and bagged by square and level coordinates.

Level 1 of Test Unit 1 contained 2 small metal fragments, 1 core, and 53 flakes. Of the 53 flakes, 6 are primary decortication, 26 are secondary decortication, and 21 are interior flakes. The decortication series account for 60% of the total lithic debitage. No burned rock, features, bone, shell, or diagnostic artifacts were recovered.

Level 2 of Test Unit 1 was culturally sterile. Excavations were halted at 20 cm due to the lack of materials in this unit and the lack of deeper materials visible in the Gradall trenches.

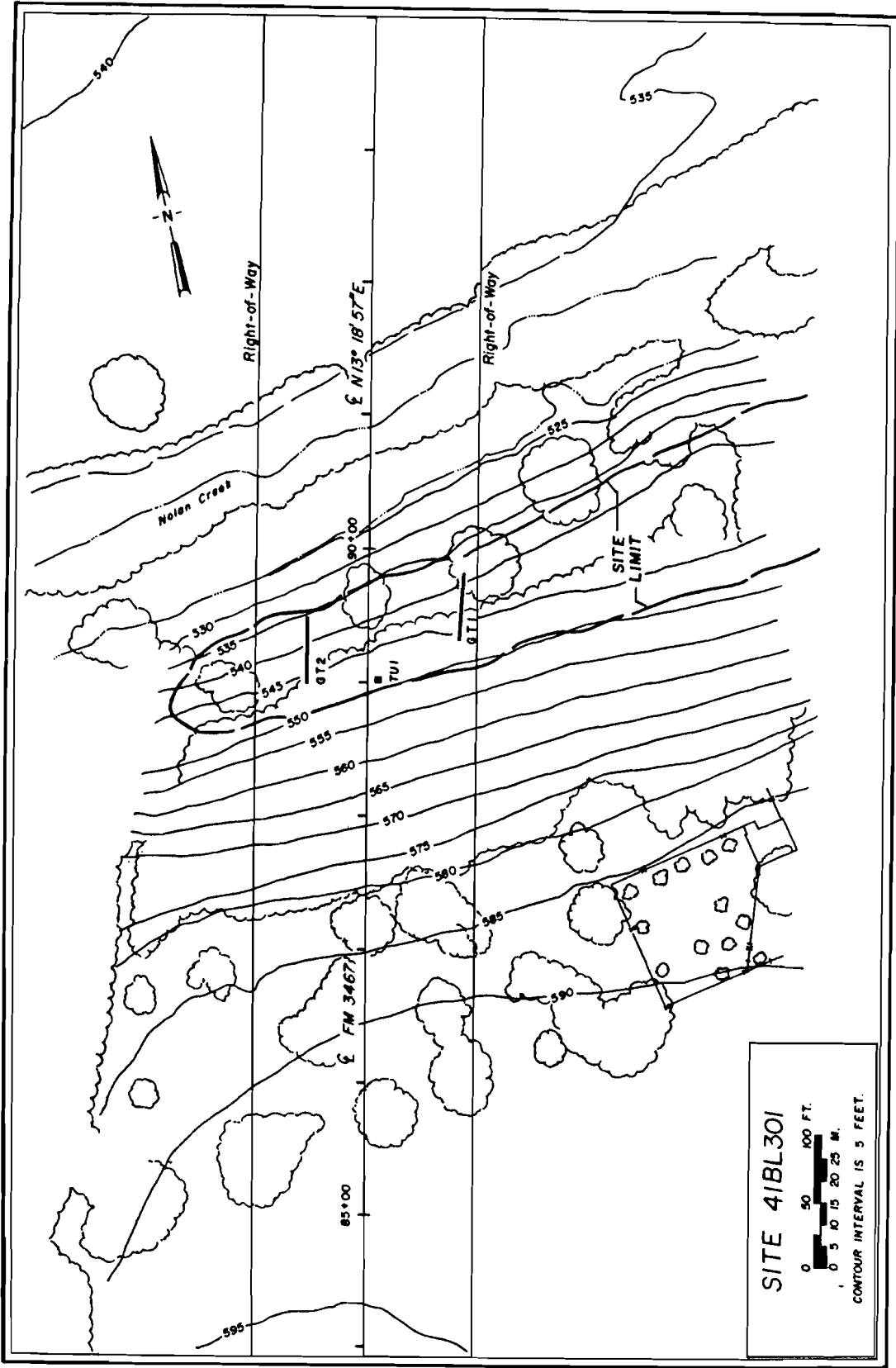


FIGURE 4. Contour Map of Site 41BL301 showing areas tested within the right-of-way.

Gradall Trench 1 was placed on the eastern right-of-way and was excavated to check for buried cultural deposits. A 15-meter-long trench was dug to a depth of 4.25 meters and revealed no subsurface materials. The only prehistoric debitage in this trench was noted in the uppermost 5 cm.

Gradall Trench 2 was placed 13.5 meters west of Test Unit 1 and was excavated to a depth of 1.2 meters. This trench also lacked any subsurface cultural debris but did contain several large flint nodules which had eroded from the bluff. These were found at a depth of 1 meter, or 20 cm above bedrock.

Excavations were halted after excavating the trenches and the test unit as there appeared to be no subsurface cultural components. The high percentage of decortication flakes (60%) and the large amount of flint nodules at the site suggest that the site functioned primarily as a quarry locale and not a habitation site. No diagnostic artifacts were recovered to pinpoint the period of utilization.

CONCLUSIONS AND RECOMMENDATIONS

Archaeological testing of a portion of 41BL301 within the right-of-way of FM 3467 in Bell County has established that the portion of the site within the right-of-way is a low density, shallow quarry location of unknown age along the second terrace on the south side of Nolan Creek. Cultural materials appear to be limited to the surface and the uppermost 5 to 10 cm of soil deposits. Limited testing suggests that most of the lithic reduction of abundant flint nodules was concerned with early reduction and cortex removal. Under these circumstances, chances of recovering significant diagnostic material to date the utilization of the quarry area seem unlikely. Construction of the highway will place 20 ft. of fill over the site within the right-of-way and will not have an adverse affect on that portion of the site.

The sparsity of cultural materials recovered and observed negate the need for additional investigation at the site. Access to property outside the right-of-way was not gained, so a determination of State Archeological Landmark status was not made for those portions of the site lying outside the right-of-way. No further investigation of Site 41BL301 within the right-of-way is recommended.

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