A Cultural Resources Survey for Medina Electric Cooperative, Inc., in Uvalde, Medina, and Frio Counties, Texas

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A Cultural Resources Survey for Medina Electric Cooperative, Inc., in Uvalde, Medina, and Frio Counties, Texas

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A CULTURAL RESOURCE SURVEY FOR
MEDINA ELECTRIC COOPERATIVE, INC.,
in UVALDE, MEDINA, AND FRIO COUNTIES,
TEXAS

AUGUSTINE FRKUSKA, JR.
AND
ELIZABETH G. FRKUSKA

Center for Archaeological Research
The University of Texas at San Antonio
Archaeological Survey Report, No. 117
1982
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INTRODUCTION

The Center for Archaeological Research (CAR), The University of Texas at San Antonio (UTSA), under contract with Alexander Utility Engineering, Inc., (letter dated May 5, 1980), conducted an archaeological survey for the Medina Electric Cooperative, Inc. Although the CAR was contracted in May 1980, at the request of Medina Electric Cooperative, Inc., the actual survey was not carried out until February 25-March 1, 1981. The survey, which was conducted in three neighboring south Texas counties (Fig. 1), was concentrated along proposed electrical distribution lines at D'Hanis in Medina County, north of Uvalde in Uvalde County, and southwest of Pearsall in Frio County. General supervision of the project was provided by Dr. Thomas R. Hester, Director, and Jack D. Eaton, Associate Director, of the CAR-UTSA. The project was carried out by Augustine and Elizabeth Frkuska, Center staff archaeologists.

The survey methods were based upon the guidelines for site survey presented in Field Methods in Archaeology (Hester, Heizer, and Graham 1975:13-36). Any artifacts observed along the proposed routes were recorded as to their location and association with their environment. The areas surveyed were restricted in width since the majority of the proposed distribution lines followed public road right-of-ways, including areas just inside private property fronting along the road. Holes are to be excavated at predetermined intervals to set the utility poles, and in certain areas along the route there are to be anchor pins for the distribution lines. In addition, electrical system substations are to be constructed. This would involve the landscaping and fencing of designated areas along each of the proposed lines.

All field information was recorded on standard forms. Photographs were taken of distribution line routes and potential sites. Selected artifacts were collected from the surface of sites and stored in paper bags labeled with a temporary site number. The site was then located and marked on a 7.5' United States Geological Survey (USGS) topographic map. All artifacts and collected data were processed according to standard archaeological procedures. Interpretations presented in this report are based on information obtained from the field survey and literature research. The information is presented under the names given to the distribution line routes and substations by the Medina Electric Cooperative, Inc.

The areas surveyed for the Medina Electric Cooperative, Inc., are encompassed by the south-central Texas region. Five major chronological periods are recognized for this area of Texas. These periods are: (1) Paleo-Indian (ca. 9200 B.C.-6000 B.C.), (2) Pre-Archaic (ca. 6000 B.C.-3500 B.C.), (3) Archaic (ca. 3500 B.C.-A.D. 1000), (4) Late Prehistoric (ca. A.D. 1000-Historic contact), and (5) Historic (the period of historic European intrusion). The prehistoric occupation in south-central Texas is represented by all chronological periods. The sections describing the previous archaeology for each of the surveyed areas refer to this chronology.

MEDINA COUNTY

Environment

Medina County is located south of the edge of the Great Plains Province and in the northern portion of the West Gulf Coastal Plain (Hunt 1967:159). The
Figure 1. Map of Texas Showing Areas of Survey in Their Respective Counties.
1, Medina County, D'Hanis substation; 2, Uvalde County, Ferris substation; 3, Frio County, Derby substation.
The elevation of Medina County may vary by 1500 feet, from the northern portion upon the Edwards Plateau to the southern portion well onto the Coastal Plain. The county lies within the Tamaulipan and Balconian biotic provinces (Blair 1950). The soils are a Rio Grande Plain Upland type consisting of hard to neutral calcareous clays and clay loams. Also found along with the clay loam is a grayish brown to neutral sandy loam (Ellis, Jordan, and Buchanan 1976:34). Vegetation ranges from a mesquite-chaparral savanna in the southern portion to a juniper-oak-mesquite savanna in the northern portion (ibid.:33). The climate reflects the topography of the land. For example, the warm moist air from the Gulf ascends to cooler altitudes at the Balcones Escarpment and Edwards Plateau, releasing precipitation. This precipitation contributes to the total annual rainfall of 32 inches (Carr 1967:6-9). The availability of moisture in the region plays an important part in the utilization of the land by prehistoric and historic settlers. There are a few major river channels that carry water the majority of the year.

Historical Background

The Medina River is the main water drainage system in Medina County. Alonso de Leon crossed the area and named the river in 1689. By 1718, the river was recognized as the western boundary of Texas, which at a later date was pushed back to the Nueces River (Webb 1952 Vol. 1:169). Parts of Medina, Uvalde, and Frio Counties came under land granted to Henri Castro, a German, for colonization purposes. In 1844, Henri Castro left San Antonio to colonize what is known as Castroville. The Castroville area, now registered as the Castroville Historic District, contains the historic Landmark Inn Complex which was excavated by the Texas Historical Commission (Hester 1975a). Castro set up a number of towns west of Castroville. In 1847, Castro founded the town of D'Hanis some 25 miles west of Castroville (Haass 1908:80). In 1881, the Galveston, Harrisburgh, and San Antonio Railroad was built north of town. This caused the town to relocate to the present position. The Old D'Hanis Historic District presently contains a few farms and family units. Scattered among the recent homes are remains of cut limestone block houses and the shell of St. Dominic's Catholic Church. Outside the church lies a cemetery with markers of some of the original settlers. The first church was a log structure built in 1850. The cornerstone for the stone church was placed in 1868 (Finger 1972). North of D'Hanis, Fort Lincoln was established along the Seco River to protect the settlements in the area; however, the fort was abandoned in 1851 (ibid.). Today, a few farms and ranches in the area are registered in the Texas Family Land Heritage Registry (e.g., Rothe Charolais Ranch, 1972, and Quihi Soathoffs Farm, 1846).

Previous Archaeology

The majority of the prehistoric sites recorded in Medina County are located in the northern portion of the county. Patterson (1975) recorded a few sites and reported on an important quarry site (41 MC 3). Whitsett (1976) provided the Texas Water Quality Board with an archaeological reconnaissance near Natalia. In 1976, the Center for Archaeological Research investigated the sites found earlier by Whitsett (Hester and Kelly 1976:14). Chadderdon in 1977 recorded the Leippe site, 41 ME 25 (notes on file, CAR-UTSA). Scorpion Cave (41 ME 7)
was excavated in 1971 and the results published in 1978 (Highley \textit{et al.} 1978: 139-194). The wealth of data collected from this site alone leads to a better understanding of how prehistoric cultures utilized the area. Because of the small amount of scientific archaeological work that has been done in the area, it is certain that many other prehistoric sites lie undiscovered or unreported in Medina County.

The sites excavated and those sites that have been recorded have given archaeologists an idea of the prehistoric chronology of the area. Occupation of Scorpion Cave (41 ME 7) is well represented from the Pre-Archaic to the Late Prehistoric.

Field Investigations

The proposed D'Hanis distribution line route will be constructed through the Old D'Hanis Historic District. Approximately two miles of new line will be built to connect the new D'Hanis substation, which lies west of the historic district, to an existing feeder network north of the district (Fig. 2). The proposed line was to follow an asphalt-paved road. The supporting utility poles were to occupy private property, of which 40% is presently under cultivation. Particular care was taken in this survey to locate any possible historic debris of construction remains. No historic or prehistoric cultural evidence was found in the affected area. Therefore, the placing of the utility poles would not disturb any known cultural deposits in the historic zone of old D'Hanis.

UVALDE COUNTY

Environment

The town of Uvalde is located just south of the Great Plains Province and in the northwestern portion of the West Gulf Plain (Hunt 1967:9). Most of the area is within the Tamaulipan Biotic Province of south Texas, although the northern portion lies in the Balconian province (Blair 1950). The elevation greatly differs as one approaches the Balcones Escarpment to the Edwards Plateau to the north. The Uvalde terrain has sloping to undulating hills with shallow, stony, and gravelly loam soils (Stevens and Richmond 1976:4). Sporadically, throughout the Uvalde area, an intrusion of magma into the Cretaceous upper layer can be seen. Black mountain, illustrated in Figure 3, is such an intrusion. The igneous rock, or traprock, is highly erosion resistant and is commercially quarried near Knippa.

The climate is much like that in Medina County to the east. The rainfall is less because the county is affected more by the dry continental air from the Great Basin high-pressure cell (Barry and Chorley 1968:158). The rainfall for the most part is less than 28 inches a year, though at times it may exceed 35 inches or total less than 13.6 inches a year (Carr 1967:6). The area is in the Edwards Plateau climatic region, with hot humid summers and dry winters (\textit{ibid.}). The vegetation is much like Medina County, with mesquite savanna and an oak-juniper woodland to the north and a chaparral savanna to the south (Ellis, Jordan, and Buchanan 1976). The Uvalde area is on the Balcones fault zone.
Figure 2. Map Showing Surveyed Substation Site and Electrical Distribution Line Passing Through the D'Hanis Historic District.
Figure 3. Map Showing Survey Route of Substation Site and Electrical Distribution Line North of Uvalde, Texas.
This zone is known to contain springs fed by the Edwards-Trinity and Edwards Aquifers (Brune 1975:12). The location of these waterholes was known throughout the prehistoric area. Historically, places such as Soldiers Camp Springs and the Leona Springs group near Uvalde were heavily used (ibid.:75).

Historical Background

In the late 1600s, Alonso de Leon traveled north of the Rio Grande to name the Nueces River. By 1762, two missions, Mission San Lorenzo de la Santa Cruz and Nuestra Senor de Candelaria de Canon, were set up to christianize marauding Lipan Apache and Comanche Indians (Tunnell and Newcomb 1969). The missions, operating under constant desertion and hostile Indian attacks, were soon abandoned. Fort Inge was established in 1849 as one in a series of forts established along the Old San Antonio Road from San Antonio to Fort Duncan and El Paso (Webb 1952 Vol. 1:827). A settlement called Encina was established near Fort Inge. The name of the town was changed to Uvalde. Uvalde later became an important shipping depot for train transportation in the last quarter of the 19th century. Structures in the town of Uvalde which are registered in the National Register of Historic Places include the Grand Opera House, John Nance Garner House, and the Ettie R. Garner Memorial Museum.

Previous Archaeology

Hunting and gathering nomadic Indians utilized the Uvalde area for over 10,000 years. The chronology of the area generally follows the previous chronology for south Texas. The cultural periods proposed in the Uvalde area are typified by the data collected from the La Jita site, excavated by Thomas R. Hester (1971). The Mason Ranch Burial Cave northwest of Uvalde was reported by Benfer and Benfer (1981). In the late 1940s, the Montell Rockshelter and Kincaid Shelter excavations revealed Paleo-Indian and Archaic materials. Recently, the Leona River Project recorded campsites, middens, hearths, and lithic concentrations in the area around the Leona River drainage (Hall 1974; P. Lukoswki, personal communication). The Texas Highway Department archaeologists tested two sites in Uvalde County located near Sabinal and Uvalde (Young 1979; Luke 1979). Presently the Center for Archaeological Research is undertaking excavation of archaeological sites along the Leona River Watershed. The results of these investigations should yield a better understanding of Archaic and Late Prehistoric settlement patterns in the area (P. Lukowski, personal communication). The Leona River and Taylor Slough drainages contain significant archaeological sites to be nominated to the National Register of Historic Places. The proposed distribution line and Ferris substation are located just north of these areas.

Field Investigations

The archaeological survey for the Ferris substation and distribution line covered approximately six miles, where utility poles will be erected along FM 2690 just inside the private property lines (Fig. 3). The distribution line is to cross three main drainages: Taylor Slough, Dry Frio River, and the Frio River. Particular attention was directed to the area near the watercourses. Concentrations
of archaeological sites were found in near proximity to water in Taylor Slough and the Leona River. Whenever possible, natural cuts into the soil along the watercourses were examined for buried cultural remains. Cultivated fields along the route were also examined. No prehistoric or historic cultural remains were observed. Therefore, further testing or other work is not recommended.

FRI O COUNTY

Environment

Rolling hills to nearly level plains typify the terrain for the study area of Frio County. Topographically, it lies in the Coastal Plain Province (Carr 1967: 3). The county lies within the Tamaulipan Biotic Province (Blair 1950). The soils in the Coastal Plain are a dark calcareous clay loam to a slightly acidic to neutral sandy loam. Color of the soil ranges from a grayish brown to a reddish brown. The climate for Frio County is within the southern climatic division and averages approximately 22 inches of rain annually. The amount of moisture supports a mesquite-chaparral savanna with small trees, shrubs, cactus, and large areas of brush. A few large oak trees survive in a riparian zone. Although no major springs occur in Frio County, a few major drainages cross the county. These drainages are the Frio River and San Miguel Creek.

Historical Background

The history of Frio County appears to be that of a land with many open ranges and a few historic settlements. Martin de Alarcon, founder of San Antonio, took a course through the middle of the county in 1718 (Webb 1952 Vol. 1:649). The Canary Islanders passed through the county to establish a civilian government in San Antonio. In 1836, Antonio Lopez de Santa Anna and the Mexican Army stopped at the old crossing on the Frio River on their way to besiege the Alamo (ibid.). The land was widely used for ranching, and the railroad from Laredo to San Antonio encouraged settlement in the area. The railroad made new towns and caused old ones to be abandoned. Old Frio Town, like Old D'Hanis in Medina County, was moved and rebuilt along the railroad. Until the last 30 years, the area has seen little change. The push by the oil industry to tap the oil pool around the Pearsall area has led to a tremendous amount of land alteration. The land alteration has accelerated the rate of destruction or prehistoric cultural resources. These resources are vital in understanding the prehistoric population and should be taken into consideration upon development of the area.

Previous Archaeology

The archaeology of Frio County is very poorly known. A few artifacts found in the county are mentioned in early publications. In 1954, Dr. T. N. Campbell's University of Texas class collected and recorded sites in Frio County. These investigations are reported in Hester (1968), who has described a number of Paleo-Indian artifacts recovered from the surface in Frio, Atascosa, and McMullen Counties along the San Miguel Creek. The sites in the county are, for the majority, Archaic by artifact assemblage. H. P. Smith, Jr. has recorded
several sites just above the Leona River confluence. The description of the sites indicates that they are extensively eroded. The sites were located on the slopes among the gravel outcrops (CAR files). The eroding chert gravels were accessible resources for the production of prehistoric stone tools.

Field Investigations

The archaeological survey of the Derby line (south of Pearsall) and substation involved approximately seven miles of new feeders to be constructed to serve the general areas of Dilley and Pearsall. The new distribution line is to proceed east from the Derby substation for a distance of approximately two miles along an unimproved road. The line will turn north along the north-south fenceline of private property owners. Along this particular fenceline there exists a buried gas line. At the north juncture with the Beavers Farm, the line will turn east and run along an east-west fenceline (Fig. 4).

The proposed line was surveyed on foot. Two areas of lithic concentrations were located on two eroded gravel shelves along the east slope of the Frio River. This geological occurrence is commercially quarried just north of the proposed distribution line.

The first lithic concentration (site 41 FR 20) was located midway down the slope among eroded gravels. The siliceous limestone ranged in size from pebbles to cobbles. The dimensions of the site were 50 m north-south and 100 m east-west. The lithic material observed appeared to be limited to the surface. A representative sample was collected and taken back to the CAR laboratory for analysis. Among the artifacts noted were large primary and secondary cortex flakes. Unifacial and bifacial cores were also observed (Fig. 5). In addition, a large number of cobbles were broken, exposing the inner matrix of the rock.

The presence of primary and secondary flakes with the total number of cores and quarry blanks suggests quarrying activities. The majority of the flakes have large platforms and massive bulbs of percussion. This trait suggests a hard percussor was used to knock off the flakes. The absence of small worked tools or altered flaking debris suggests the selected quarried material was taken to another locality (perhaps to a small chipping station or base camp closer to a water source) where a more refined reduction sequence was used.

The second lithic concentration (site 41 FR 21) was located in an exposed gravel outcrop on the floodplain of the Frio River at the base of the slope (Fig. 4). The lithic concentration appears to be debris of more refined lithic reduction activities. The majority of the flakes contained little cortex. A representative sample was collected and returned to the laboratory for analysis. The dimensions of the site measured 35 m north-south by 70 m east-west and were limited in depth to the surface. The lithic assemblage consists of small bifacial preforms, tools, and small flakes (Fig. 6). A projectile point and a biface both appear to have been retouched, perhaps to perform a specific function. The projectile point is similar to the dart point type known as Gower (Wesolowsky, Hester, and Brown 1976:47). The Gower-type is associated with Paleo-Indian or Pre-Archaic assemblages (Hester 1979; Shafer 1979).
This page has been redacted because it contains restricted information.
Figure 5. Artifacts from 41 FR 20. a,b,e,f, bifacial cores; c, secondary flake with prepared platform; d, bifacial thinning flake.
Figure 6. Artifacts from 41 FR 21.  

- a, interior flake with heat spalls; 
- b, possible core altered by heavy machinery; 
- c, bifacial thinning flake with possible retouch; 
- d, bifacial core; 
- e, biface with heat spalls; 
- f, preform; 
- g, projectile point.
The two archaeological sites recorded in this survey cannot be placed with certainty into a specific time period. The area was probably utilized over a couple of millennium beginning in the Archaic period. However, tool assemblages and debitage for the area need to be studied in detail in hope that a chronological order may be placed upon these types of lithic quarries or workshop areas (cf. Hester 1975b; Hester and Shafer 1975; Shafer and Hester 1971; Fox 1979; and others). Hester (1980) has indicated that the prehistory of southern Texas is made up of varied cultural patterns and eventually will be integrated into regional chronological frameworks.

CONCLUSIONS AND RECOMMENDATION

The Center for Archaeological Research conducted an archaeological survey for the Medina Electric Cooperative, Inc., examining distribution lines and substations to be constructed in Uvalde, Medina, and Frio Counties in south-central and southern Texas. The proposed lines are to cross known archaeological and historical districts. The three areas involved in the survey included the D'Hanis substation line in Medina County, the Ferris substation line in Uvalde County, and the Derby substation line in Frio County.

Archaeological material was not observed in the proposed development areas in Medina and Uvalde Counties. In Frio County, however, two moderate lithic scatters were located along the Derby line. Both concentrations represent stone-chipping activity carried out by aboriginal peoples. The areas were recorded and registered with the Texas Archeological Research Laboratory in Austin and officially designated as 41 FR 20 and 41 FR 21. The sites were noted to be extensively disturbed by man-made and natural forces and were judged to be limited to the surface only. Further archaeological work is not recommended for these sites. If the proposed distribution lines are to be placed in areas other than the areas surveyed, then any newly proposed routes would need to be examined. The possibility also remains that archaeological evidence may be unearthed during the operation. If this should happen, a qualified archaeologist should be contacted to evaluate the situation.

ACKNOWLEDGMENTS

We would like to thank Jack Eaton, Associate Director of the Center for Archaeological Research, and Dr. Thomas R. Hester, Center Director, for their advice and comments on problems relating to the project.

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ABSTRACT

An archaeological survey of powerline right-of-ways was conducted in Uvalde, Medina, and Frio Counties of south Texas by the Center for Archaeological Research, The University of Texas at San Antonio. No significant cultural resources were found in the areas surveyed in Uvalde and Medina Counties. However, two prehistoric sites (41 FR 20 and 41 FR 21) were documented in the Frio County survey. The two sites are lithic scatters of little depth and will not require further work.