

#### ACA F81-246

Valley, three miles west of Bear Grass Draw. It is situated on a rolling plain, within a small arroyo which is tributary to Bear Grass Draw. The elevation varies from 3660 to 3680 feet (1115.5 to 1121.6 meters). The soil encountered in the area is predominantly a loamy calcareous sand. Taxonomically it can be classified as a member of the paleorthids-haplargids association. Lithic inclusions consist of large volumes of gravel and fragmented caliche, especially on the slopes above the arroyo.

#### Floristics

ACA encountered a dense floral assemblage at this location. The density of the vegetation in the area is approximately 80 percent, consisting primarily of shrubs. The dominant species is plains yucca (Yucca campestris). Among other species present are Christmas cactus (Opuntia leptocaulis), creosote bush (Larrea tridentata), mesquite (Prosopis juliflora), bush muhley (Muhlenbergia Porteri), western wheatgrass (Agropyron Smithii), and broom snakeweed (Gutierrezia Sarothrae).

#### Cultural Resources

ACA recorded on archaeological site, ENM 10542 during this survey (see figure 3):

##### ENM 10542

Location: NW 1/4 NW 1/4 SE 1/4 Section 7, T17S R29E, NMPM, Eddy County, NM

NE 1/4 NW 1/4 SE 1/4, Section 7, T17S R29E, NMPM, Eddy County, NM

SW 1/4 NW 1/4 SE 1/4, Section 7, T17S R29E, NMPM, Eddy County, NM

SE 1/4 NW 1/4 SE 1/4, Section 7, T17S R29E, NMPM, Eddy County, NM

UTM: Zone 13; N3634500; E583150

Map Reference: USGS Red Lake Quadrangle 7.5 minute series, 1955

Ownership: Bureau of Land Management, Roswell District, Carlsbad Resource Area

Type of Site: Lithic Scatter (quarry area)

Size of Site: 80 X 30 meters

##### Description of Site:

ENM 10542 is located on a gravel bench overlooking a tributary channel to Bear Grass Draw. The gravels throughout this area have been utilized as lithic raw material during the prehistoric period. The site measures 80 meters from east to west, and 30 meters from north to south. The area of highest artifact density occurs in the east central portion of the site, and surrounds the center stake of the proposed Green "B" No. 11 well pad. Among the Artifacts observed within 10 meters of the proposed well center are eight chert cores, four purple and gray quartzite cores, three silicified sandstone cores, three retouched silicified sandstone flakes (exhibiting bifacial retouch on two margins), two retouched chert flakes (exhibiting bifacial retouch on two margins), three retouched