

## INTRODUCTION

AN ARCHAEOLOGICAL RECONNAISSANCE WAS RECENTLY COMPLETED BY A.C.A. OF EASTERN NEW MEXICO UNIVERSITY FOR GULF OIL CORPORATION IN LEA COUNTY, NEW MEXICO. THE RECONNOITERED AREA WILL BE IMPACTED BY THE CONSTRUCTION OF A WATER DISPOSAL LINE. THE PROJECT WAS ADMINISTERED BY MR. BOB NOLEN, GULF OIL CORPORATION AND SCOTT SCHERMER, ACTING DIRECTOR, FOR ACA. THIS REPORT WAS PREPARED BY THE ROSWELL OFFICE OF ACA, ROD MACLENNAN, MANAGER.

THE FIELD WORK WAS CONDUCTED ON APRIL 3, 1980 BY ROD MACLENNAN. EXCELLENT FIELD AND WEATHER CONDITIONS PREVAILED THROUGHOUT THE COURSE OF THIS RECONNAISSANCE. THIS SURVEY WAS CONDUCTED UNDER FEDERAL ANTIQUITIES PERMIT NUMBER 79-NM-049. A SEARCH OF THE NATIONAL REGISTER HAS BEEN MADE AND PROPERTIES WITHIN THIS AREA ARE NOT LISTED ON THE REGISTER.

## SURVEY TECHNIQUE

VISUAL INSPECTION OF THE PIPELINE RIGHT OF WAY WAS ACCOMPLISHED BY WALKING THE RIGHT OF WAY AS A TRANSECT. EACH TRANSECT WAS WALKED IN A TIGHTLY SPACED ZIG-ZAG PATTERN AND COVERED THE LENGTH AND BREADTH OF THE RIGHT OF WAY. THIS METHOD MAXIMIZES THE OPPORTUNITY OF OBSERVING ANY CULTURAL RESOURCES WITHIN OR NEAR THE PROPOSED AREA OF IMPACT.

## WATER DISPOSAL LINE TO WELL NO. 31

THE PROPOSED PIPELINE IS LOCATED 11 MILES SOUTHEAST OF EUNICE, NEW MEXICO, ON TOBOSO FLATS. THE PIPELINE MEASURES 50 X 3300 FEET AND IS SITUATED AS FOLLOWS:

NW 1/4 NW 1/4, SECTION 27, T23S, R37E, NMPM, LEA COUNTY, NEW MEXICO (BLM)  
 NE 1/4 NW 1/4, SECTION 27, T23S, R37E, NMPM, LEA COUNTY, NEW MEXICO (BLM)  
 SE 1/4 SW 1/4, SECTION 22, T23S, R37E, NMPM, LEA COUNTY, NEW MEXICO (BLM)  
 SW 1/4 SE 1/4, SECTION 22, T23S, R37E, NMPM, LEA COUNTY, NEW MEXICO (BLM)

MAP REFERENCE: USGS RATTLESNAKE CANYON QUADRANGLE 7.5 MINUTE SERIES, 1969

(FIGURES 1 AND 2)

## TERRAIN

THE PROPOSED PIPELINE IS LOCATED ON TOBOSO FLATS, WHICH IS A LEVEL, SANDY PLAIN. THE ELEVATION VARIES FROM 3290 TO 3295 FEET. THE SOILS ENCOUNTERED IN THE AREA ARE PREDOMINANTLY TAN SANDS. LITHIC INCLUSIONS WITHIN THE SOIL CONSIST OF SMALL AMOUNTS OF CALICHE. TAXONOMICALLY THIS SOIL CAN BE CLASSIFIED AS A MEMBER OF THE HAFLARGIDS-TORRIPSAMMENTS-PALEORTHIDS ASSOCIATION.