

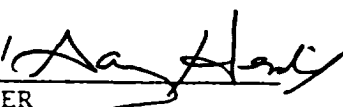
SMITH INTERNATIONAL

Smith International Inc.

SURVEY CERTIFICATION

COMPANY TERRA RESOURCES INC. WELL NAME & NO. TERRA FEDERAL 22 COM. #1
DATE of CERTIFICATION 06-19-88 LOCATION CHAVES COUNTY, N.M.
TYPE of SURVEY MAGNETIC MULTISHOT FROM 1682 TO 5350
JOB NUMBER 11668806003 TICKET NUMBER 0190

THE ABOVE SURVEY WAS PERFORMED BY ME ON 06-19- 19 88
THE RESULTS OBTAINED FROM ACTUAL FIELD DATA CONFORM TO ESTABLISHED STANDARDS AND ARE
TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

STAN SMITH BY: GARRY HENDRIX/
SURVEYOR/DIRECTIONAL DRILLER

FILM TRANSFER RECEIPT

I HEREBY ACKNOWLEDGE RECEIPT OF ORIGINAL FILM OBTAINED ON THE ABOVE SURVEY.

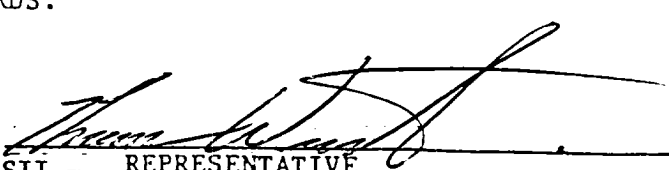
DATE RECEIVED _____ 19 _____

COMPANY REPRESENTATIVE _____

SURVEY CONFIRMATION

I HAVE EXAMINED THE ABOVE SURVEY AND FOUND THE DATA AND RESULTS ACCEPTABLE ACCORDING
TO CURRENT SMITH DRILLING SYSTEMS STANDARDS.

THOMAS WRIGHT/


SII - REPRESENTATIVE