



P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, TIM STEPHENS in the employ of Eastman
Whipstock, Inc. did on the days of FEBRUARY 19, 19 83 thru
FEBRUARY 19, 19 83 conduct or supervise the taking of a
GYROSCOPIC MULTISHOT survey by the method of magnetic orientation
from a depth of 6192 feet to 6218 feet, with recordings of
inclination and direction being obtained at approximate intervals of
3 feet.

This survey was conducted at the request of ARCO OIL AND GAS COMPANY
for their EMPIRE ABO UNIT "F" WELL NO. 354 EDDY County,
State of NEW MEXICO, in the _____ field.

The data for this survey and the calculations were obtained and per-
formed by me according to standards and procedures as set forth by Eastman
Whipstock, Inc. and is true and correct to the best of my knowledge.

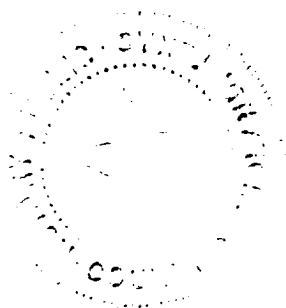
Tim Stephens
DIRECTIONAL SUPERVISOR/SURVEYOR

The data for this survey has been examined by me and conforms to
principles and procedures set forth by Eastman Whipstock, Inc.

Douglas Eugene Jeffers

Before me, the undersigned authority, on the day personally appeared
TIM STEPHENS, known to me to be the person whose name
is subscribed to the instrument, who after being by me duly sworn on oath,
states that he has knowledge of all the facts stated above and that this
instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 12TH day of
April, 1983



Roy L. Heinke
Notary Public in and for the County
Midland, Texas
My commission expires 7/9/85