

dugan production corp.

November 11, 1981

New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Re: Pioneer Production Corp., Hartman #1E,
located 1850' FNL - 1850' FWL, Sec 31 T29N R11W,
San Juan County, NM

Gentlemen:

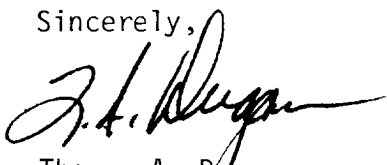
This is to certify that deviation tests were run on the captioned well
and the following is a true report of those tests:

1/4° at 906'
1/4 at 1402
1/4 at 1901
3/4 at 2394
3/4 at 2524

3/4° at 3021'
1 at 3361
1 at 3853
1 at 4401
1 at 4726

1° at 5244'
1 at 5336
1-1/4 at 5737
2 at 5950

Sincerely,


Thomas A. Dugan
Petroleum Engineer



State of New Mexico)
County of San Juan) ss

Subscribed and sworn to before me this 11th day of November 1981.



OFFICIAL SEAL
FRANCES PERRIN
NOTARY PUBLIC - NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires 5-15-85