

dugan production corp.

December 1, 1981

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

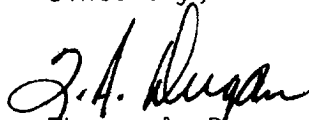
Re: DUGAN PRODUCTION CORP.
Emerald #1
1110' FSL - 850' Fw1
Sec 17 T24N R1W
Rio Arriba County, NM

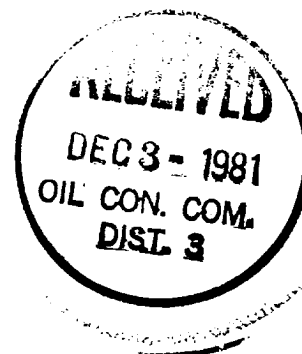
Gentlemen:

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

3/4° at 1340'
3/4° at 2440'
1° at 3380'

Sincerely,


Thomas A. Dugan
Petroleum Engineer



State of New Mexico)
County of San Juan) ss

Subscribed and sworn to before me this 1st day of December 1981.

Frances Perrin



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