

# dugan production corp.

November 19, 1981

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



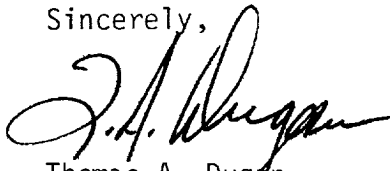
Re: Jerome P. McHugh  
Apache #1E  
810' FNL - 820' FEL  
Sec 18 T26N R3W  
Rio Arriba County, NM

Gentlemen:

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

1/2° at 268'	1° at 2402'	1 1/2° at 4615'	1° at 6982'
1/4 at 781	3/4 at 2652	1 at 5179	1 at 7206
1/2 at 1276	1 at 3148	3/4 at 5544	3/4 at 7705
3/4 at 1615	1 1/4 at 3625	1 at 5959	1 at 7825
1 at 1797	1 1/4 at 4120	1 1/4 at 6482	1 at 8250

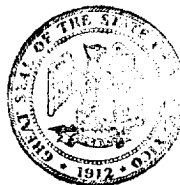
Sincerely,



Thomas A. Dugan  
Petroleum Engineer

State of New Mexico)  
County of San Juan ) ss

Subscribed and sworn to before me this 19th day of November 19 81.



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