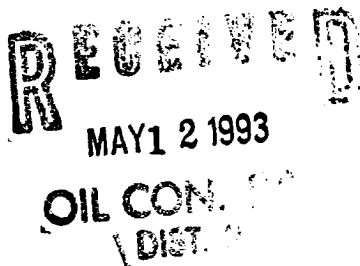


dugan production corp.

May 10, 1993

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

Re: DUGAN PRODUCTION CORP.
Patriot #1
Unit M, Sec. 29, T26N, R13W
San Juan County, NM

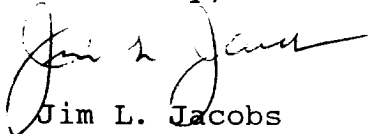


Gentlemen:

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

3/4° @ 90'	1° @ 2446'
1/2° @ 183'	1-1/4° @ 2823'
3/4° @ 218'	1-3/4° @ 3322'
1° @ 456'	1-3/4° @ 3570'
3/4° @ 943'	2-1/4° @ 4037'
3/4° @ 1443'	1-1/4° @ 4536'
1/4° @ 1944'	3/4° @ 5031'

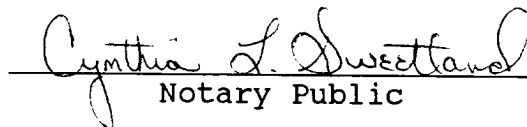
Sincerely,


Jim L. Jacobs

cg

State of New Mexico)
County of San Juan) ss

Subscribed and sworn to before me this 10th day of May, 1993.


Notary Public

My Commission Expires: August 11, 1996.