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February 23, 1981

RECEIVED

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Mr. W. A. Gressett  
Energy and Minerals Department  
Oil Conservation Division  
P.O. Drawer "DD"  
Artesia, NM 88210

O. C. D.  
ARTESIA, OFFICE

Re: Exemption of Marathon Oil Company's Federal IBD Gas Com  
Well No. 2 (Located 800' FNL & 200' FEL, Sec. 30, T-21S,  
R-23E, Eddy County, New Mexico) from a new well 4-point  
test.

Dear Mr. Gressett:

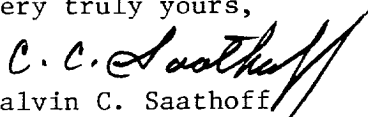
Marathon Oil Company respectfully requests an exemption from the  
4-point potential test for a new gas well.

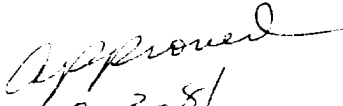
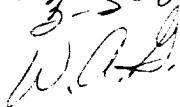
This well produces a large amount of water along with the gas.  
If the choke setting is increased, the amount of produced water  
will increase, but the gas rate will remain nearly constant.  
For example, at a choke setting of 14/64" the well produces 144  
BWPD and 580 MCFPD. At a choke setting of 16/64" the well pro-  
duces 228 BWPD and 583 MCFPD. At a choke setting of 18/64" the  
well produces 236 BW and 572 MCFPD. Thus, at various choke  
settings, the gas flow rate is almost constant. Therefore a  
4-point test would be of no value since the four readings for  
the test would be the same. If the well is shut in entirely  
the water will kill the well. After the well has been shut in  
it requires nearly a week to swab it in because of the large  
amount of water it produces.

The well is being produced into a compressor because the well  
will not flow by itself into the gathering system.

I hope this fully explains the situation that exists in the sub-  
ject well, and the reasons for Marathon's request for an exemption  
from the 4-point test.

Very truly yours,

  
Calvin C. Saathoff  
Operations Superintendent

  
3-3-81  


PNB:1bp