

MERIDIAN OIL

November 15, 1993

Mr. Frank Chavez
N. M. Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Commingling Allocation
Huerfanito Unit #78M MV-DK
1545' FSL 1270' FEL
Sec. 36, T27N R09W
San Juan County, N. M.

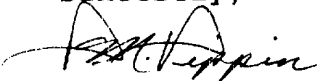
Dear Frank,

We have reviewed the gas tests on our Huerfanito Unit #78M which is a commingled Blanco Mesaverde - Basin Dakota well, as per N.M.O.C.D. order #E-9887. Based on tests taken during completion operations from both the Dakota and Mesaverde, we feel that the following oil and gas production allocation on the subject well's commingled zones would be reasonably accurate:

	<u>Gas</u>	<u>Oil</u>
Dakota	98%	93%
Mesaverde	2%	7%

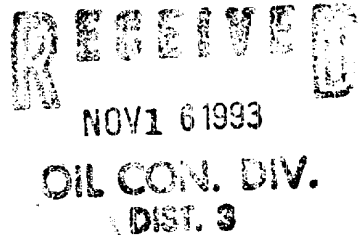
Please let us know if this percentage allocation meets with your approval.

Sincerely,



P. M. Pippin
Sr. Production Engineer

PMP:pmp
attachment



CALCULATIONS FOR HUERFANITO UNIT #78M MV-DK

Commingled Blanco Mesaverde Basin Dakota

Pitot gauges were taken during completion operations while the rig was on location.

GAS

Pitot Gauge MV Only (8-29-93): 48 MCF/D
5.5 BF/Hr @ 10% oil

Pitot Gauge MV + DK (9-2-93): 1948 MCF/D
24 BF/Hr 25-30% oil

GAS ALLOCATION

$$\text{Mesaverde} = \frac{48}{1948} = 2\%$$

$$\text{Dakota} = \frac{1948 - 48}{1948} = 98\%$$

OIL ALLOCATION

$$\text{MV} = 5.5 \times 0.1 = 0.5 \text{ BO/Hr}$$

$$\text{MV} + \text{DK} = 24 \times 0.3 = 7.2 \text{ BO/Hr}$$

$$\text{Mesaverde} = \frac{0.5}{7.2} = 7\%$$

$$\text{Dakota} = \frac{7.2 - 0.5}{7.2} = 93\%$$