

# MERIDIAN OIL

*only*

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JUL 29 1993

**OIL CON. DIV.,  
DIST. 3**

July 27, 1993

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

Re: Commingling Allocation Calculation  
Huerfanito Unit #104 DK-MV  
1090' FSL 825' FWL  
Sec. 27, T27N R09W  
San Juan County, N. M.

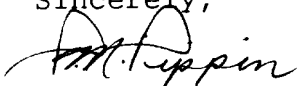
Dear Frank,

We have reviewed the gas and oil tests on our Huerfanito Unit #104 DK-MV which is a commingled Blanco Mesaverde - Basin Dakota well, as per N.M.O.C.D. order #R-9887 Case #10701. Based on tests taken both before and after completion operations, 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>
Mesaverde	0%	93%
Dakota	100%	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 #104 DK-MV

Commingled  
Basin Dakota  
Blanco Mesaverde

GAS

Actual gas prod. before commingling (DK) = 100 MCF/D  
Actual gas prod. after commingling (DK+MV) = 75 MCF/D

GAS ALLOCATION

Mesaverde = 0%

Dakota = 100%

OIL

Actual oil prod. before commingling (DK) = 1 BOPD  
Actual oil prod. after commingling (DK+MV) = 15 BOPD

OIL ALLOCATION

$$\text{Mesaverde} = \frac{14}{15} = 93\%$$

$$\text{Dakota} = \frac{1}{15} = 7\%$$

Due to water production, this well would not flow during the workover operations. It was necessary to install a pumping unit and pump test the well (on line). Therefore both oil and gas rates are average actual rates either through the gas meter or in the oil tank.