



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

TONEY ANAYA  
GOVERNOR

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

February 18, 1985

Mr. Drew Bates  
W.B. Martin & Associates, Inc.  
709 North Butler  
Farmington, NM 87401

Re: Martin-Whittaker #57 C-05-23N-5W  
Commingled Production Allocation

Dear Drew:

Your recommended allocation of production to the referenced well is approved as follows:

	<u>Oil</u>	<u>Gas</u>
Gallup	44%	34%
Dakota	56%	66%

If you have any questions, please contact this office.

Sincerely,

Frank T. Chavez  
District Supervisor

FTC/dj

xc: Santa Fe  
EPG  
G R  
Well File  
Operator File



# W. B. MARTIN & ASSOCIATES, INC.

709 North Butler, Farmington, New Mexico 87401

Phone: (505) 326-4507

February 13, 1985

Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, NM 87410

Attn: Frank Chavez

The following is the requested information necessary in Allocating production by horizon for the #57 and #58 Martin-Whittaker wells.

#57 Martin-Whittaker  
IPS-32BOPD and 120MCFD  
IP-C104 30BOPD and 250MCFD

Dakota i.e. Dakota C,D,A, and Greenhorn IPS-18BOPD=56% 100% water  
Gallup i.e. Upper Gallup, Gallup, Semilla-12BOPD=44%  
Dakota Gas IPS-45MCFD=38% Gas  
Gallup Gas IPS-75MCFD=62% Gas

$$\begin{aligned} \frac{18}{32} &= 56\% \\ \frac{18}{30} &= 60\% \\ \frac{12}{30} &= 40\% \end{aligned}$$

After frac IP-C104 increased to 250MCFD which is normal for tight gas sands as the Dakota and feel most of the gas volume change came from the Dakota, whereas the oil production relatively did not change. From the productive history of the Dakota north of this area ranges from 3-6.5MCF to 1MCF over Gallup gas production; therefore, a Dakota gas production to be increased to 66% of the gas.

$$\frac{75}{12} = 6.25 \text{ } 6.25 \times 1 = 6.25$$

Avg for area - see @ line

#58 Martin-Whittaker  
IPS-17.5BOPD and 230MCFD  
IP-C104 20BOPD and 220MCFD  
Dakota i.e. C & D, A, & Greenhorn=10BOPD=57%  
Gallup i.e. Upper, Gallup, Semilla-7.5BOPD=43%  
Dakota Gas=145MCFD=63%

$$\begin{aligned} 7.5 \times 6.25 &= 46.875 \text{ MCF} \\ 46.875 \text{ MCF} &\div 220 = 213\% \end{aligned}$$

After frac IP-C104 no drastic increase in oil and gas production and have not produced this well often enough since November to place a better figure than Dakota production at 57% oil and 63% gas which could yield higher on the production ratio over the Gallup once the wells have produced to a stabilized rate.

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Con'd Allocating production for #57 & #58 M-W

NOVEMBER PRODUCTION

	#57 Martin-Whittaker	#58 Martin-Whittaker
Oil Allowable	40BOPD	40BOPD
Oil Produced	546BO	Ø
Days Producing	22	Ø
Gallup Oil %	.44x546=240BO	.43xØ=N/A
Dakota Oil %	.56x546=306BO	.57xØ=N/A
Gallup Gas %	.34xVented=N/A	.37xVented=N/A
Dakota Gas %	.66xVented=N/A	.63xVented=N/A

DECEMBER PRODUCTION

	#57 martin-Whittaker	#58 Martin-Whittaker
Oil Allowable	40BOPD	40BOPD
Oil Produced	191BO	219BO
Gallup Oil %	.44x84BO	.43x94BO
Dakota Oil %	.56x107BO	.57x125BO
Gallup Gas %	34% Waiting on Hookup	37% Waiting on Hookup

Frank,

I hope that this information will aid in Allocating the produced fluids from these wells.

Andrew A. Bates  
Andrew A. Bates