

Southern

Rockies

Business

Unit

San Juan Operations Center

October 16, 1996

Frank Chavez New Mexico Oil Conservation Division 1000 Rio Brazos Drive Aztec, New Mexico 87410

Dear Mr. Chavez,



ON GOYE, DYS.

Subject: Downhole Commingled Zone Allocation Proposal - Ludwick A #1E Unit D, Section 19, Township 30 North, Range 10 West, NMPM San Juan County, New Mexico Blanco-Mesaverde and Basin-Dakota

In accordance with Administrative Order **DHC-1248** approved by William Lemay on **June 7**, **1996**, we are to work with your offices in establishing a suitable allocation method to be used to allocate production on a monthly basis among the commingled zones. This letter is a proposal to allocate production from the **Ludwick A #1E** based on the "subtraction method", whereby a rate of decline has been established for the **Dakota** which will be the basis for future allocation to the **Dakota**, and the balance of production will be allocated to the combined **Mesaverde**.

Attachment No. 1 is the historical production used to establish the decline of the **Dakota**, and is illustrated as a decline curve in Attachment No. 2. Based on these calculations, production from the **Dakota** will decline as illustrated on Attachment No. 3. Attachment No. 4 is an example of the subtraction method and the numbers used are for illustrating how threshold production is calculated for the **Dakota**, and used as the denominator in the "subtraction" equation (Actual Combined Flow - **Dakota** Threshold Volume = **Mesaverde** Allocated Volume).

We would like to begin using this method beginning with September 1996 production month, and continue this method of allocation until such time that the allocation percentages stabilize, at which time we would request to establish a fixed rate allocation method.

Please advise me if this method meets with your approval.

Very Truly Yours,

Jim P. Shaheen

Sr. Business Analyst - Farmington

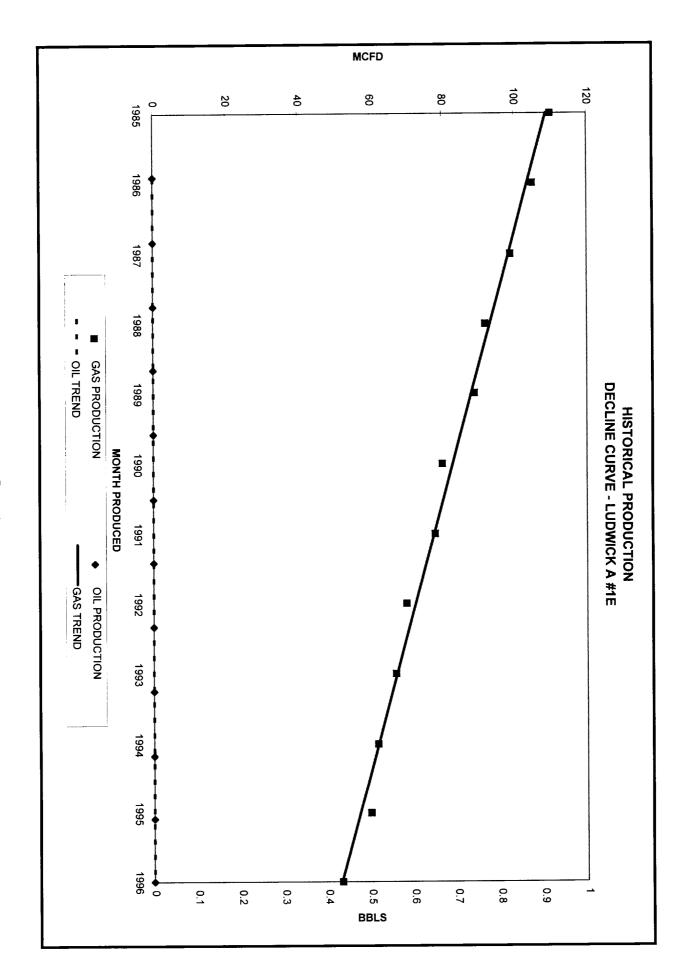
Attachments

cc w/attach: Pam Staley - Amoco Denver

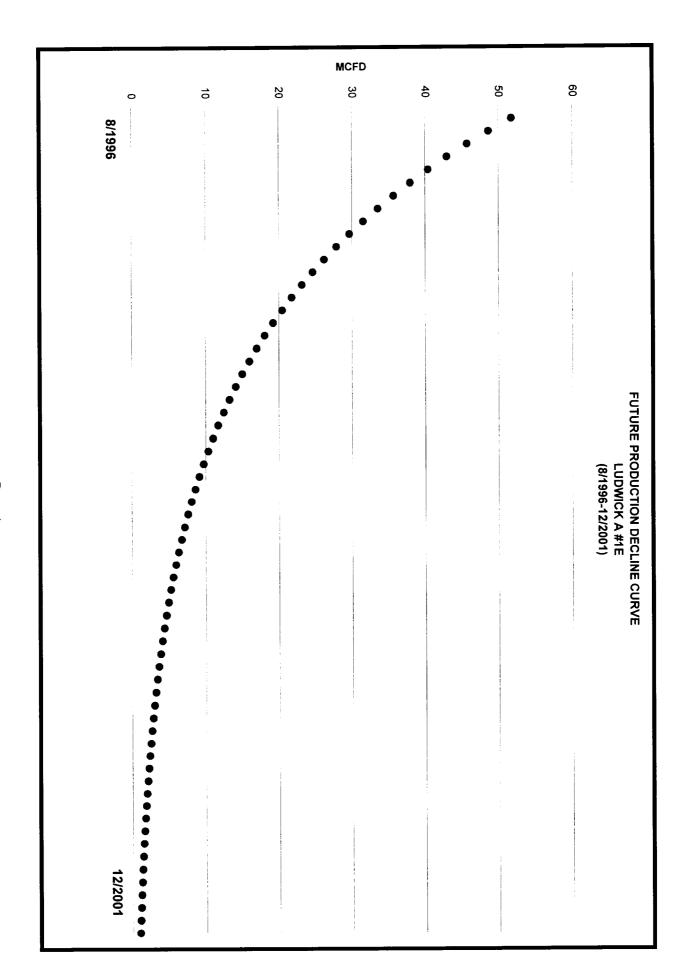
Mike Kutas - Amoco Denver

Well File - Denver

			52.0	12	1996
			60.0	1	1995
			62.0	10	1994
			67.0	9	1993
			70.0	∞	1992
			78.0	7	1991
			80.0	6	1990
	114.1060606	89.0 Yint	89.0	ហ	1989
#DIV/0!	0.061997993	92.0 Decline	92.0	4	1988
	51.75641026	Qf	99.0 Qf	ω	1987
	108.9102564	<u>Q</u>	105.0 Q i	2	1986
	-5.1958042	3	110.0 M	_	1985
<u>P</u>	GAS		MCFD	PERIOD	DATE
LONG	DECLINE CALCULATIONS	DEC	PRODUCTION DECLINE BASIS		



Page 1



12/2001	07/1997	06/1997	05/1997	04/1997	03/1997	02/1997	01/1997	12/1996	11/1996	10/1996	09/1996	08/1996	Production Months
65	2	1.1	0.0	9	•		ç	5	4	8	2		n Production Period
	2	2	2	3	3	3	3	4	4	4	4	5	GAS 'Est. Prod. MCFD
1.0	26.2	27.8	29.6	31.5	33.5	35.7	38.0	40.4	43.0	45.7	48.6	51.8	Tlow
0.00	588 24.50	588 24.50	588 24.50	588 24.50	588 24.50	588 24.50	588 24.50	588 24.50	588 24.50	588 24.50	588 24.50	423 17.63	Flow His. Flow Days
0.00	641.14	682.14	725.77	772.20	821.59	874.13	930.04	989.53	1052.82	1120.16	1191.80	912.21	DK Threshold Volume
0	500	4 1000	7 2000	0 3000	9 4000	3 5000	4 6000	7000	8000	9000	11861	11928	Actual Combined Monthly Flow- Meter 94787
0.00	500.00	682.14	725.77	772.20	821.59	874.13	930.04	989.53	1052.82	1120.16	1191.80	912.21	DK Allocation HZ 01
#DIV/0!	100.00%	68.21%	36.29%	25.74%	20.54%	17.48%	15.50%	14.14%	13.16%	12.45%	10.05%	7.65%	%DK HZ 01
0.00	0.00	317.86	1274.23	2227.80	3178.41	4125.87	5069.96	6010.47	6947.18	7879.84	10669.20	11015.79	MV Allocation HZ 02
#DIV/0!	0.00%	31.79%	63.71%	74.26%	79.46%	82.52%	84.50%	85.86%	86.84%	87.55%	89.95%	92.35%	% M V HZ 02