

Mobil Exploration & Producing U.S. Inc.

P.O. BOX 633
MIDLAND, TEXAS 79702-0633

October 6, 1994

MIDLAND SOUTH ASSET TEAM
ENVIRONMENTAL, REGULATORY &
LOSS PREVENTION

FACSIMILE (915) 688-1514

State of New Mexico
Commission of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148
ATTN: Pete Martinez

R-10219

**REF: Down-Hole Commingling Exception
North Vacuum Abo Unit #104/
Bridges State #104
North Vacuum Abo &
Wolfcamp/Upper Penn
Lea County, New Mexico**

Dear Pete:

Mobil Exploration & Producing U.S. Inc. as agent for Mobil Producing TX & NM Inc., hereby requests your approval for downhole commingling on the subject wells. The following information is furnished:

<u>Lease Name/Well Number</u>	<u>Zone Commingled</u>
North Vacuum Abo Unit #104 Bridges State #104	North Vacuum Abo Vacuum Wolfcamp/Upper Penn**

** Approved on May 8, 1989 for Downhole Commingling under order DHC 725

In support of this application, please find attached:

1. Location plat
2. Data sheet for both zones (Exhibit A)
3. Computation of relative values for hydrocarbons (Exhibit B) with additional economics shown
4. Present and proposed wellbore sketches

As per our conversation this date, we have already gone to hearing and will be awaiting Oil and Gas Divisions approval as well.



**Environmental
Awareness**

Downhole Commingling Exception
North Vacuum Abo Unit #104/Bridges State #104
North Vacuum Abo/Vacuum Wolfcamp/Upper Penn
Page 2

Enclosed herewith is a check in the amount of \$30.00 for the filing fee.

If any other information is needed, please call me at 915-688-2584. Thank you for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "Kaye Pollock-Lyon". The signature is fluid and cursive, with the first name "Kaye" being more prominent.

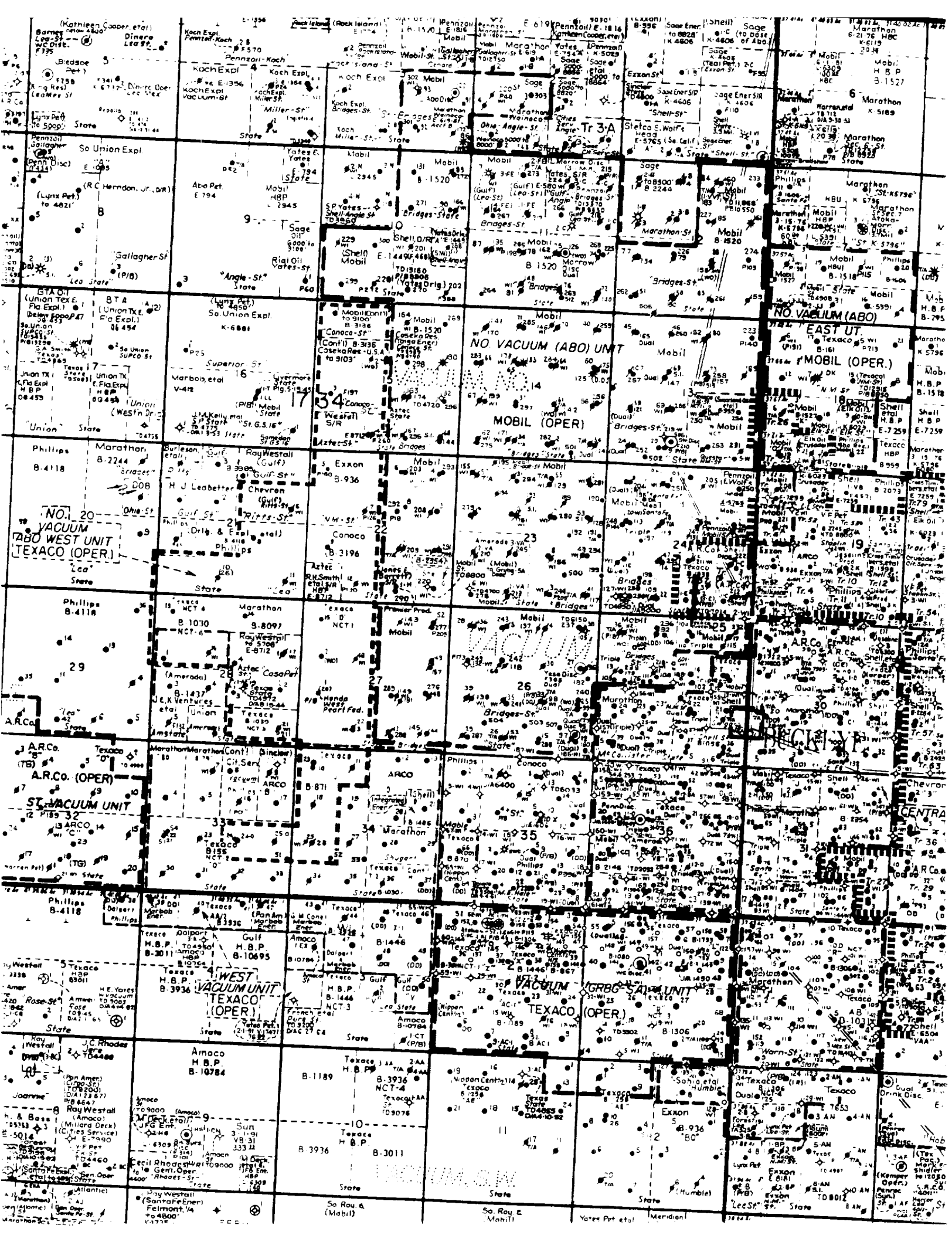
Kaye Pollock-Lyon
Environmental & Regulatory Technician

Mobil Exploration & Producing US Inc.
as agent for
Mobil Producing TX & NM Inc.

KP:s

Attachments

cc: OCD-Santa Fe, David Catanach
OCD-Hobbs District Office



DATA SHEET

EXHIBIT A

Application for exception to Rule 303 (a) New Mexico Oil Conservation Commission's Rules & Regulations allowing downhole commingling of dually completed oil wells by administrative procedure (Order No. R-3845)

1. Lease Name North Vacuum Abo Unit/Bridges State
2. Well Number 104/104
3. Well Location Unit B, 520 FNL & 2120 FEL
Sec. 25, Township 17S, Range 34E
Lea County, New Mexico
4. Upper Zone North Vacuum Abo
5. Completion Interval: 8444 to 9300
6. Lower Zone Wolfcamp/Upper Penn
7. Completion Interval: 9552 to 10116
8. Current Productivity Test Summary:

	Upper Zone <u>Abo</u>	Lower Zone <u>W/C//Penn</u>
Production Method	Pump	Pump
BOPD	60	37
MCFPD	30	50
BWPD	68	73
GOR	500	1351
GOR Limit	2000/1	2000/1

9. Fluid characteristics of Each Zone: Both zones produce intermediate crude and we expect no problems in producing the commingled waters

DATA SHEET

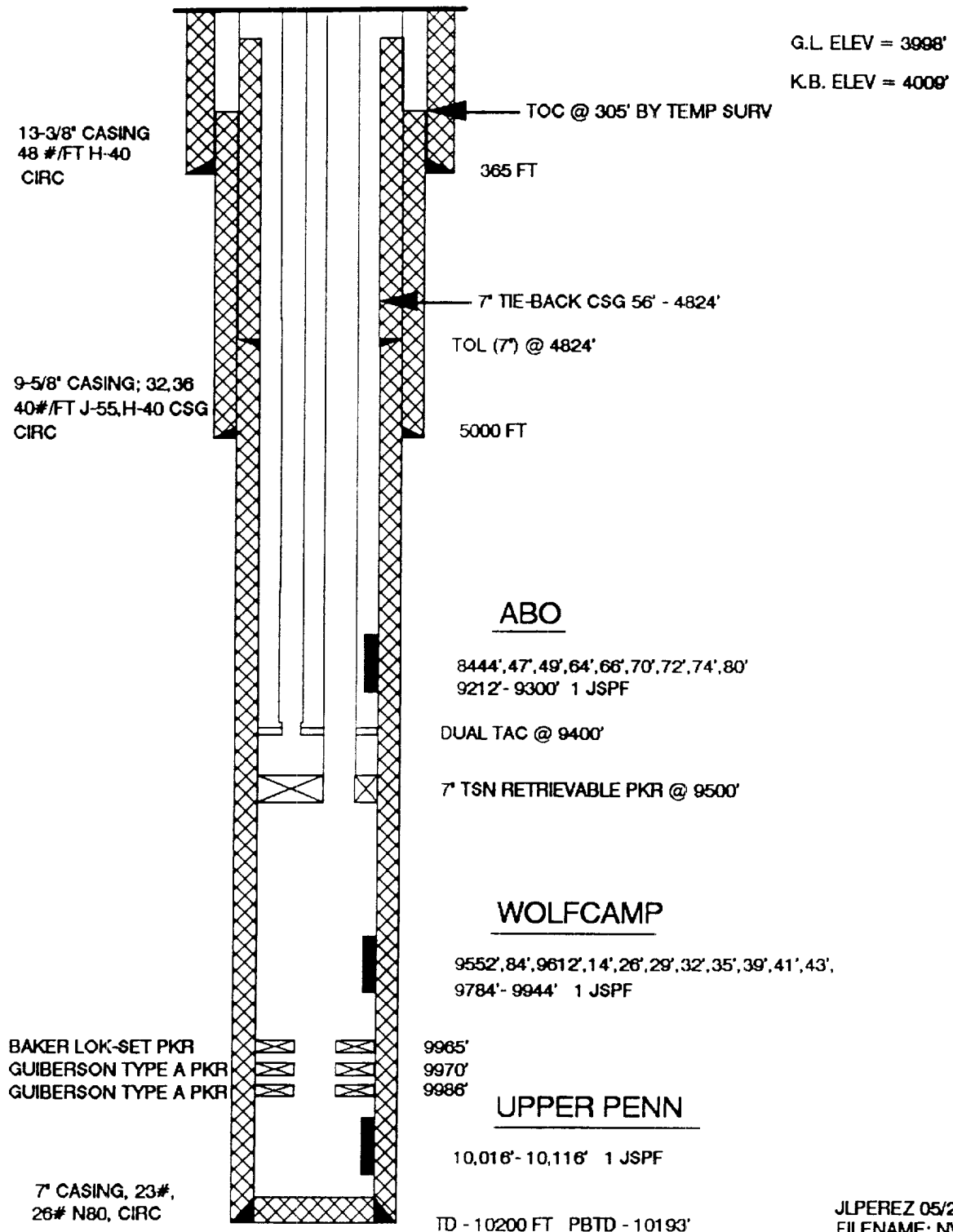
EXHIBIT B

COMPUTATION OF RELATIVE VALUES OF THE HYDROCARBON PRODUCTION BEFORE & AFTER DOWNHOLE COMMINGLING (STATEWIDE RULE 303-C-2-H)

Lease & Well Number	North Vacuum Abo Unit 104/Bridges State 104		
	<u>UPPER POOL</u> <u>ABO</u>	<u>LOWER POOL</u> <u>W/C//PENN</u>	<u>COMMINGLED</u>
Pool Name	North Vacuum	Bridges State	
Gravity, API 37.07	35.2	40.1	
Selling Price/BO	16.75	16.75	16.75
Daily Production/BO	60	37	97
Daily Income	\$1,005.00	\$619.74	\$1,624.75
TOTAL DAILY INCOME (POOLS SEPARATED)	\$1,624.75		

Net difference from downhole commingling based upon current well tests = \$-0- /day gain

BRIDGES STATE/NORTH VACUUM ABO UNIT #104
VACUUM (ABO, WOLFCAMP, PENN) FIELDS
LEA COUNTY, NEW MEXICO
CURRENT COMPLETION



JLPEREZ 05/24/94
FILENAME: NVAU104C