

RELEASE 11-21-93 DMC

BARBARA FASKEN
FASKEN OIL AND RANCH INTERESTS
303 WEST WALL AVENUE, SUITE 1900
MIDLAND, TEXAS 79701-5116
(915) 687-1777

OIL CONSERVATION DIVISION
RECEIVED

1993 NOV 2 AM 9 37

October 27, 1993

New Mexico Oil Conservation Division
P.O. Box 2208
Santa Fe, New Mexico 87501

Re: Application for Downhole
Commingling
Barbara Fasken
Lake McMillan Federal #1
Federal Lease #NM 86028
Eddy County, New Mexico

Dear Sirs:

Attached is an application with supporting documents necessary for obtaining approval to downhole commingle the Wolfcamp and Atoka in the subject well.

Thank you for your help in this matter.

Sincerely,

Carl V. Brown
Carl Brown
Petroleum Engineer

CWB/cb

cc: BLM - Carlsbad
NMOCD - Artesia
Well file

Commingling Data for Lake McMillan Federal #1

1. Operator: Barbara Fasken
303 W. Wall, Suite 1900
Midland, Texas 79701-5116
2. Lease: Lake McMillan Federal #1
Unit I, Sec. 30, T-19-S, R-27-E
1450' FSL & 150' FEL
Pools: East Lake McMillan (Wolfcamp)
Eddy Undesignated Atoka
McMillan SW Atoka
3. Plat attached.
4. Current productivity test:

Wolfcamp 7870'-7896'
Flowed 25 MCFPD @ 490 psi FTP 1" choke

Atoka 9436'-9440'
Flowed 20 MCFPD @ 925 psi FTP 1" choke
5. Production decline history for the Wolfcamp is attached.
Estimated Wolfcamp reserves :
Initial rate 25 MCFPD declining @ 25%/yr to 10 MCFPD
economic limit = 19,025 MCF

Estimated Atoka reserves :
Initial rate 20 MCFPD declining @ 25%/yr to 10 MCFPD
economic limit = 12,700 MCF

Total expected reserves from both zones = 31,725 MCF
6. Bottom hole pressures:

Atoka zone @ 9440': 1746 psi measured 9/29/93 (copy attached)

Wolfcamp zone @ 7896': 874 psi calculated from SICP 730 psi
using the formula : $BHP = SICP + (.25)(SICP/100)(Depth/100)$
7. Both zones produce dry sweet gas with no fluid incompatibility problems.
8. The value of the commingled production will not be less than the sum of the values of the individual streams since the gas properties are similar.

9. Proposed formula for the allocation of production:

gas: Wolfcamp: $19,025/31,725 = 60\%$

 Atoka: $12,700/31,725 = 40\%$

condensate: use same split as gas.

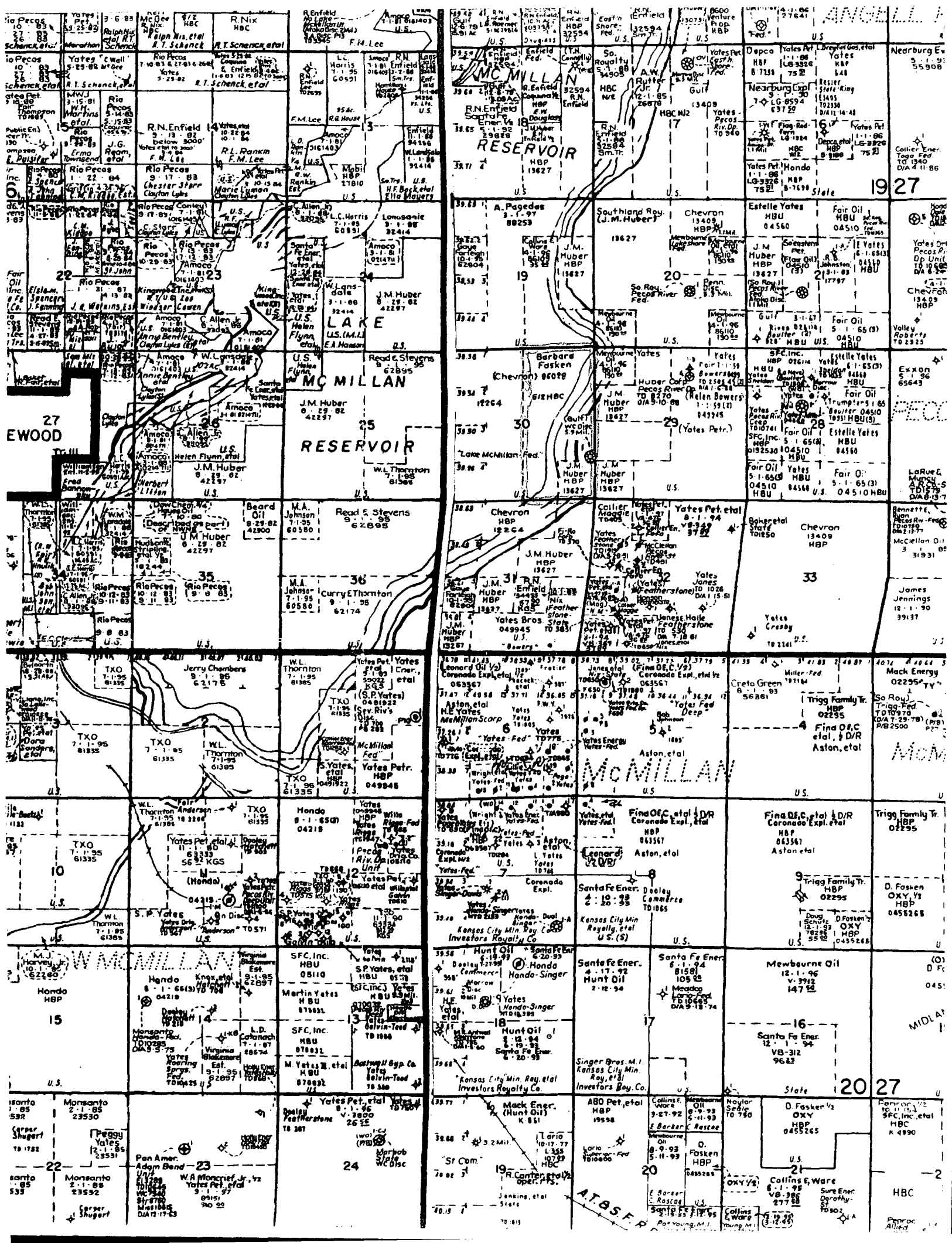
10. The offset operators listed below and the Bureau of Land Management have been notified in writing of the proposed commingling:

Mewbourne Oil Co., 500 W. Texas, Suite 1020, Midland, TX
79701

Collins & Ware, 303 W. Wall, Suite 2200, Midland, TX 79701

Chevron USA, P. O. Box 1150, Midland, TX 79701

Yates Petroleum Corp, 105 S. Fourth St., Artesia, NM 80210

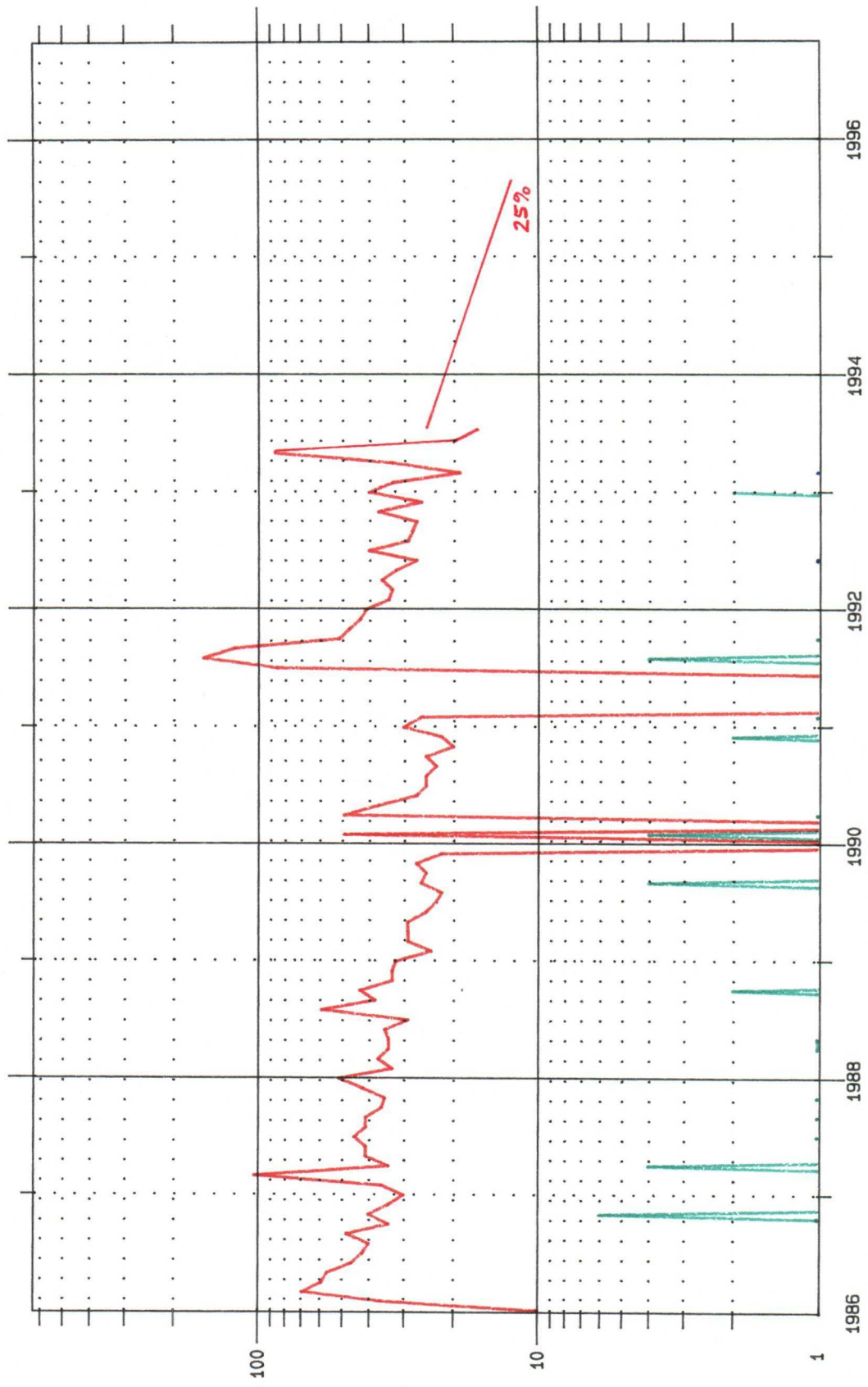


Calculated
Oil
Gas
Water

TEMP
Production Rate vs Time
BBL/Day or Mcf/Day vs Months
LAKE MC MILLAN FEDERAL | 11 FASKEN BARBARA
For the Period 01/1986 to 12/1995

Wolfcamp

Production
Oil
Gas
Water



Reported Oil Production = 3979 Bbls
Reported Gas Production = 187186 Mcf
Reported Water Production = 81 Bbls

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Barbara Fasken

3. Address and Telephone No.

303 W. Wall, Suite 1900, Midland, TX 79701 (915) 687-1777

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1450' FSL & 150' FEL
Unit I, Sec. 30, T19S, R27E

5. Lease Designation and Serial No.

NM 12264 88028

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SCR-451

8. Well Name and No.

Lake McMillan Federal #1

9. API Well No.

10. Field and Pool, or Exploratory Area

East Lake McMillan (Wolfcamp)

11. County or Parish, State

Eddy, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-17-93 to 8-31-93

1. Killed well, unset pkr., tagged PBTD @ 9689' KB. POW w/tbg. and packer.
2. Ran 5-1/2" packer on 2-3/8" tubing w/1.781" "F" profile nipple and TOSSD. Set pkr. @ 9443' KB.
3. Perforated MORrow Lime 9631-37' and 9651-57', total 14 holes.
4. Acidized perfs w/1000 gals. 15% NEFE HCl.
5. Swabbed well. Tested gas non-commercial.
6. Overnight SITP 580 psi, killed well, release packer, POW w/tbg. and pkr.
7. Set CIBP @ 9540' KB dumped 4. sx Class "H" cmt. on CIBP.
8. Ran 5-1/2" pkr. w/1.781" "F" profile nipple and TOSSD on 2-3/8" tubing to 9383' KB.
9. Perforated Atoka 9436-40' 2 JSPF.
10. Acidized 9436-40' w/500 gals. 7-1/2% SS021 acid.
11. Tested 20 MCFPD after swabbing load water. Shut in.

14. I hereby certify that the foregoing is true and correct

Signed Carl Brown

Title Petroleum Engineer

Date 9-2-93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

JARREL SERVICES, INC.
Box 1230
Hobbs, New Mexico 88240

OCT 01 1993

<<Static Gradient Survey>>

COMPANY: Barbara Fasken
LEASE: Lake McMillan Federal
FIELD: North Carlsbad
COUNTY: Eddy
STATUS: Shut in
PERFORATIONS FROM: ~~9631~~ ft 9436-40
DEPTH: 9477 ft

Date: 09/29/93 @ 12:00 n
CONTACT: Mike Davis
WELL: #1
ZONE: Atoka
STATE: New Mexico
OPERATOR: Standefer
TO: ~~9657~~ ft 9540
TEMPERATURE: 149°F

TABULAR DATA

DEPTH (ft)	PRESSURE (psi)	GRADIENT (psi/ft)	EXPLANATIONS
0	873		
3000	954	0.027	
6000	1033	0.026	
7945	1084	0.026	<=Phase separation
9000	1551	0.442	
9477	1762	0.442	
9644	1836	0.442	<=Extrapolated BHP

NOTE: Explanations are included to clarify calculated data points.
NOTE: Hit obstruction at 9487'

