

DHC  
1351

8/21/96

**Southern**  
**Rockies**  
**Business**  
**Unit**

July 29, 1996

Mr. William J. LeMay, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P. O. Box 6429  
Santa Fe, NM 87505

**Application for Exception to Rule 303-A**  
**Downhole Commingling**  
**Bassett Com #1M Well**  
**Unit L Section 33-T30N-R10W**  
**Basin Dakota and Blanco Mesaverde Pools**  
**San Juan County, New Mexico**

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. By copy of this application by certified mail, return receipt requested, Amoco is notifying all offset operators in the formations captioned above as well as all affected interest owners if the ownership of those formations is not common. The Division Director may approve the proposed downhole commingling in the absence of a valid objection from any offset operator or any interest owner in those instances where ownership is not common in the zones to be commingled within 20 days after the receipt of the application if, in his opinion, waste will not result thereby, and correlative rights will not be violated.

Should there be questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,

Pamela W. Staley

Enclosures

cc: Mike Kutas  
Patty Haefele  
Wellfile  
Proration File

Frank Chavez, Supervisor  
NMOCD District III  
1000 Rio Brazos Road  
Aztec, NM 87410

Duane Spencer  
Bureau of Land Management  
1235 La Plata Hwy.  
Farmington, NM 87401

DISTRICT I  
P.O. Box 1980, Hobbs NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-A  
New 3-12-96

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

DISTRICT II  
811 South First St., Artesia, NM 88210-2835

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

X Administrative \_\_\_ Hearing

DISTRICT III  
1000 Rio Brazos Rd. Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE  
X YES \_\_\_ NO

Amoco Production Company

P.O. Box 800 Denver, CO 80201

Operator  
BASSETT COM

1M

Address  
L-33-30N-10W

San Juan

Lease Well No. Unit Ltr. - Sec Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000308 API NO. 3004524918 Federal X State (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	BLANCO MESAVERDE 72319		BASIN DAKOTA 71599
2. Top and Bottom of Pay Section (Perforations)	4187' - 4198' (TO BE SQZD) 4450' - 4790' (EXISTING)		6813' - 7010'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current) 617 PSI b. (Original) 1238 PSI	a. b.	a. 753 PSI b. 2113 PSI
6. Oil Gravity (° API) or Gas BTU Content	1196 BTU		1122 BTU
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)	YES		YES
• If Shut-In, give data and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	5/96 80 MCFD 0.21 BCPD 1 BWPD	Date: Rates:	5/96 60 MCFD 0.22 BCPD 0 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 50 % Gas 57 %	Oil: % Gas %	Oil: 50 % Gas 43 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? \_\_\_X\_\_\_ Yes \_\_\_ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? \_\_\_ Yes \_\_\_ No  
Have all offset operators been given written notice of the proposed downhole commingling? \_\_\_X\_\_\_ Yes \_\_\_ No

11. Will cross-flow occur? \_\_\_ Yes \_\_\_X\_\_\_ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. \_\_\_ Yes \_\_\_ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? \_\_\_X\_\_\_ Yes \_\_\_ No

13. Will the value of production be decreased by commingling? \_\_\_ Yes \_\_\_X\_\_\_ No (If Yes, attach explanation)

15. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. \_\_\_X\_\_\_ Yes \_\_\_ No SF-078204-A NM-03998

16. ATTACHMENTS:

- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of all offset operators.
- \* Notification list of working, overriding, and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Pamela W. Staley TITLE REGULATORY AFFAIRS REP DATE 7/23/96

TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. ( 303 ) 830-5344

All distances must be from the outer boundaries of the Section.

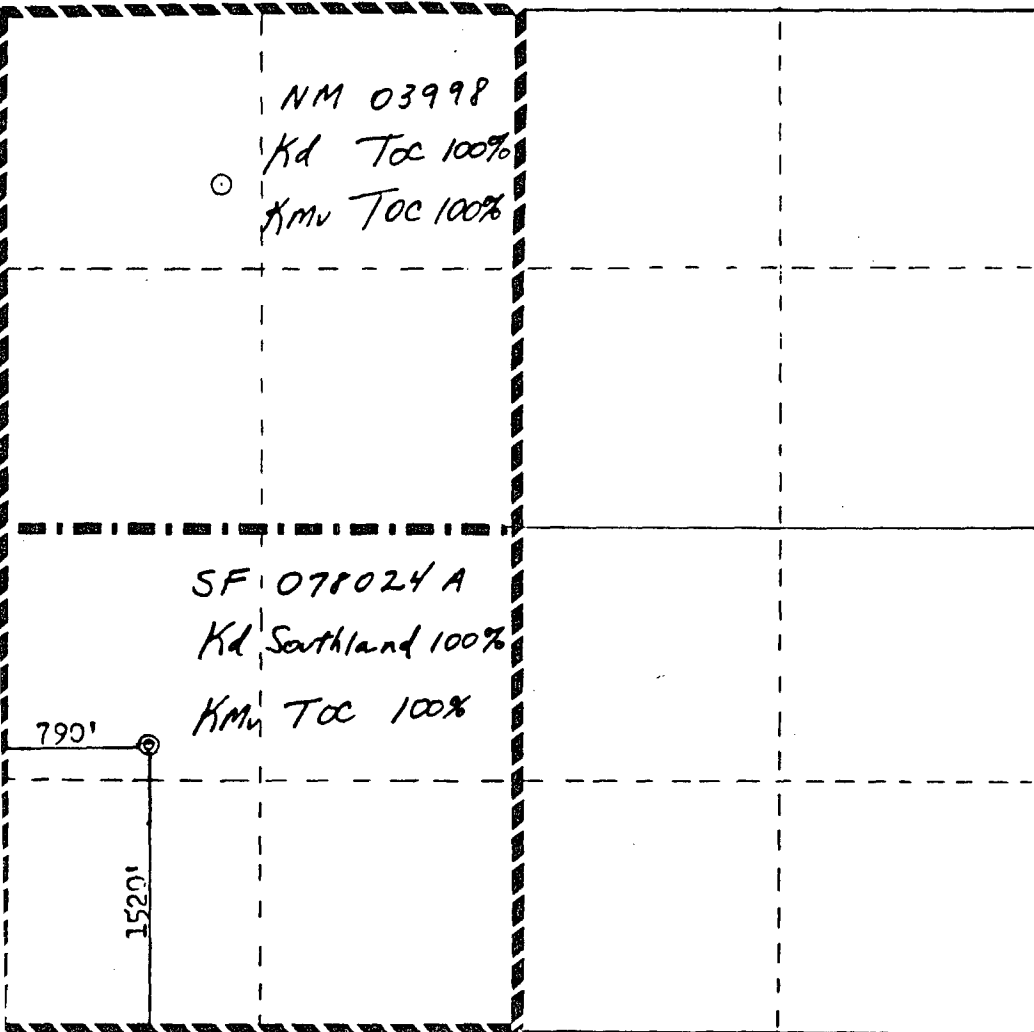
Operator <b>TENNECO OIL COMPANY</b>			Lease <b>BASSETT GAS UNIT</b>		Well No. <b>1M</b>
Unit Letter <b>L</b>	Section <b>33</b>	Township <b>30N</b>	Range <b>10W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1520</b> feet from the <b>South</b> line and <b>790</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6029</b>	Producing Formation <b>MESAVERDE / DAKOTA</b>		Pool <b>BLANCO MESAVERDE / BASIN DAKOTA</b>		Dedicated Acreage: <b>320</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

#### CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*R. A. Mishler*  
Name

R. A. Mishler

Position

Sr. Production Analyst

Company

Tenneco Oil Company

Date

January 27, 1981

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

January 19, 1981

Registered Professional Engineer and Land Surveyor

*Fred E. Kett*  
Fred E. Kett

Certificate No.

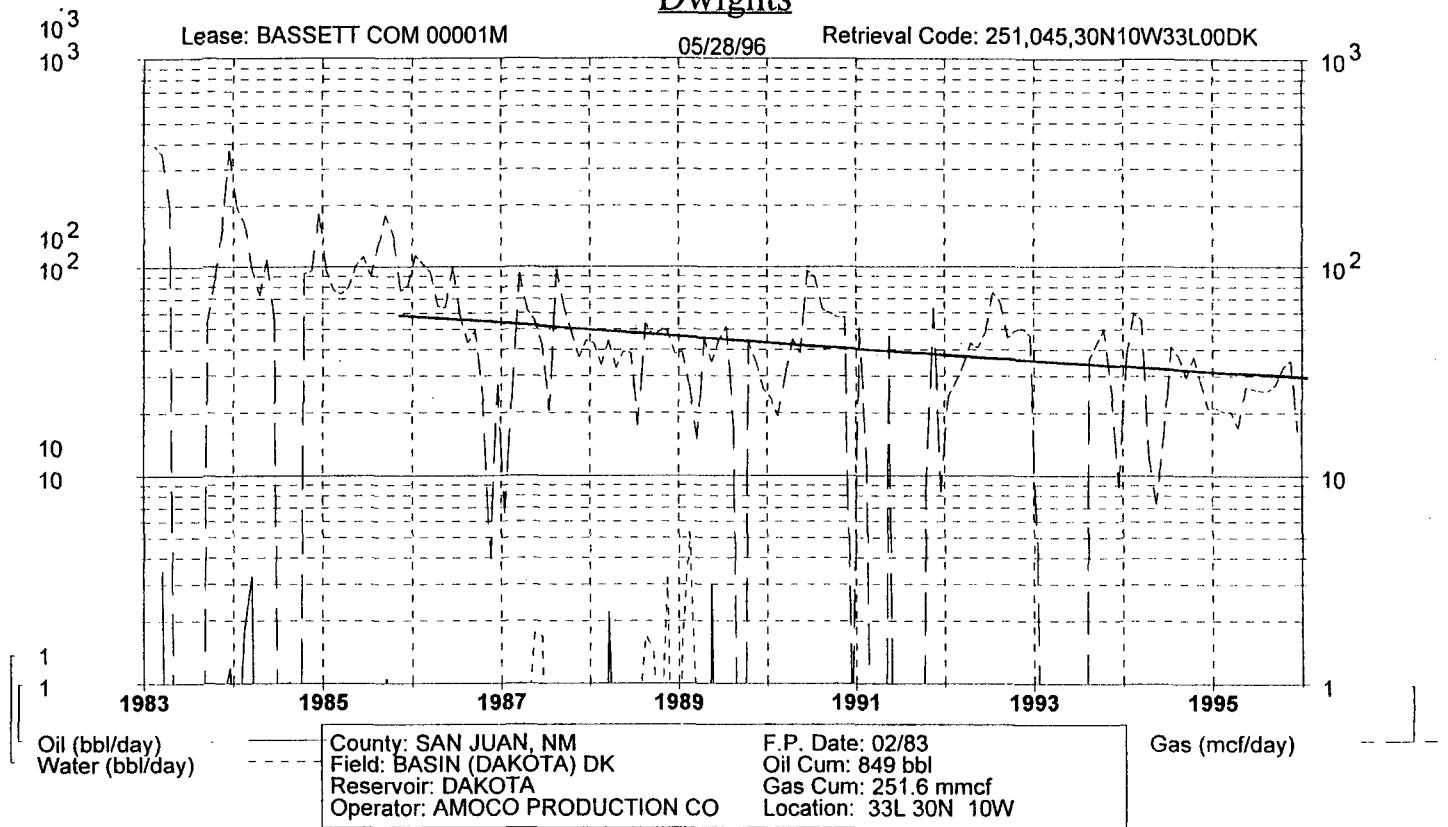
3950

# Dwights

Lease: BASSETT COM 00001M

05/28/96

Retrieval Code: 251,045,30N10W33L00DK



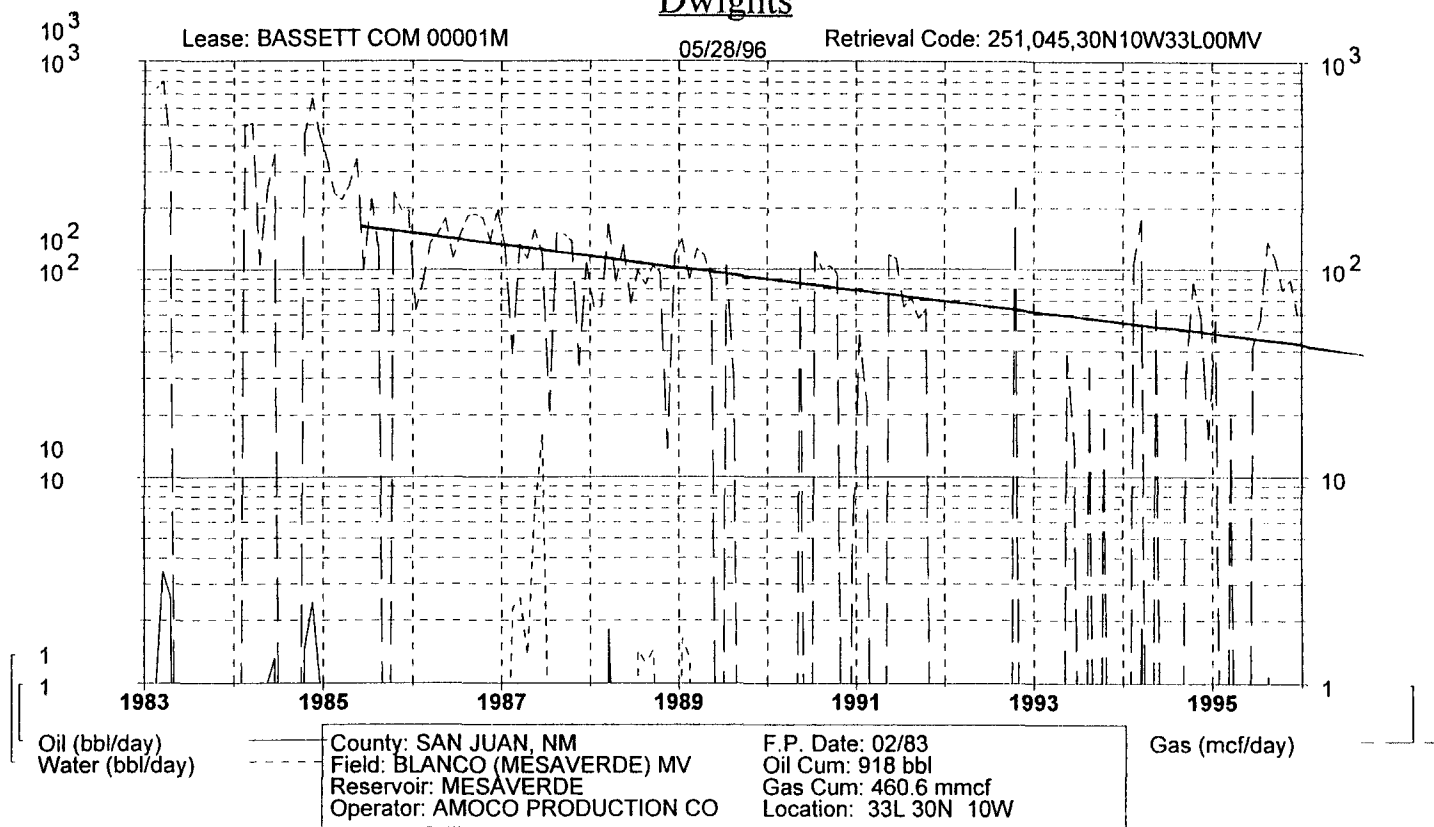
$$D_i = \ln \frac{50}{45} = 10.5\%$$

# Dwights

Lease: BASSETT COM 00001M

05/28/96

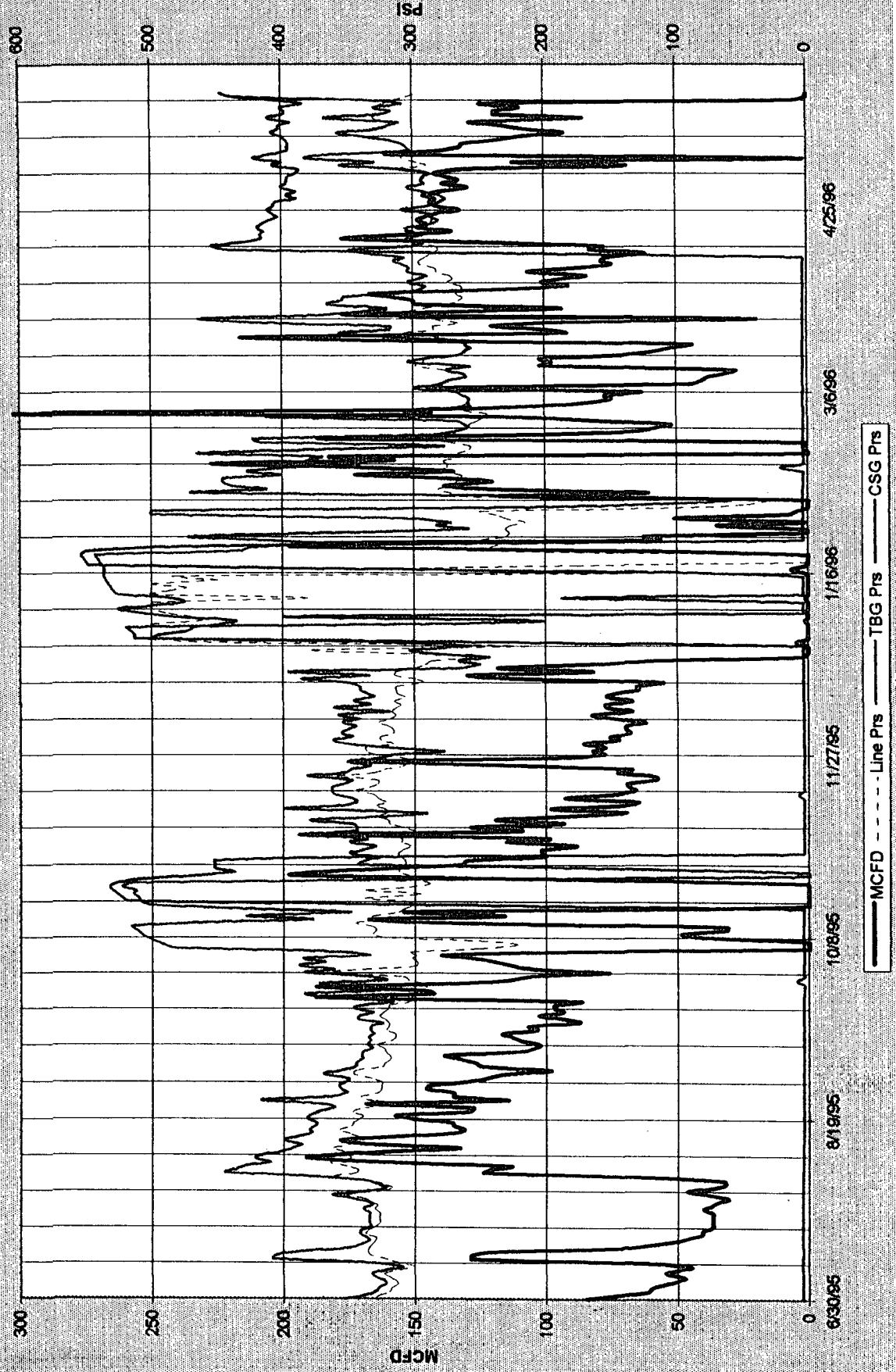
Retrieval Code: 251,045,30N10W33L00MV



$$D_i = \ln \frac{90}{80} = 11.8\%$$

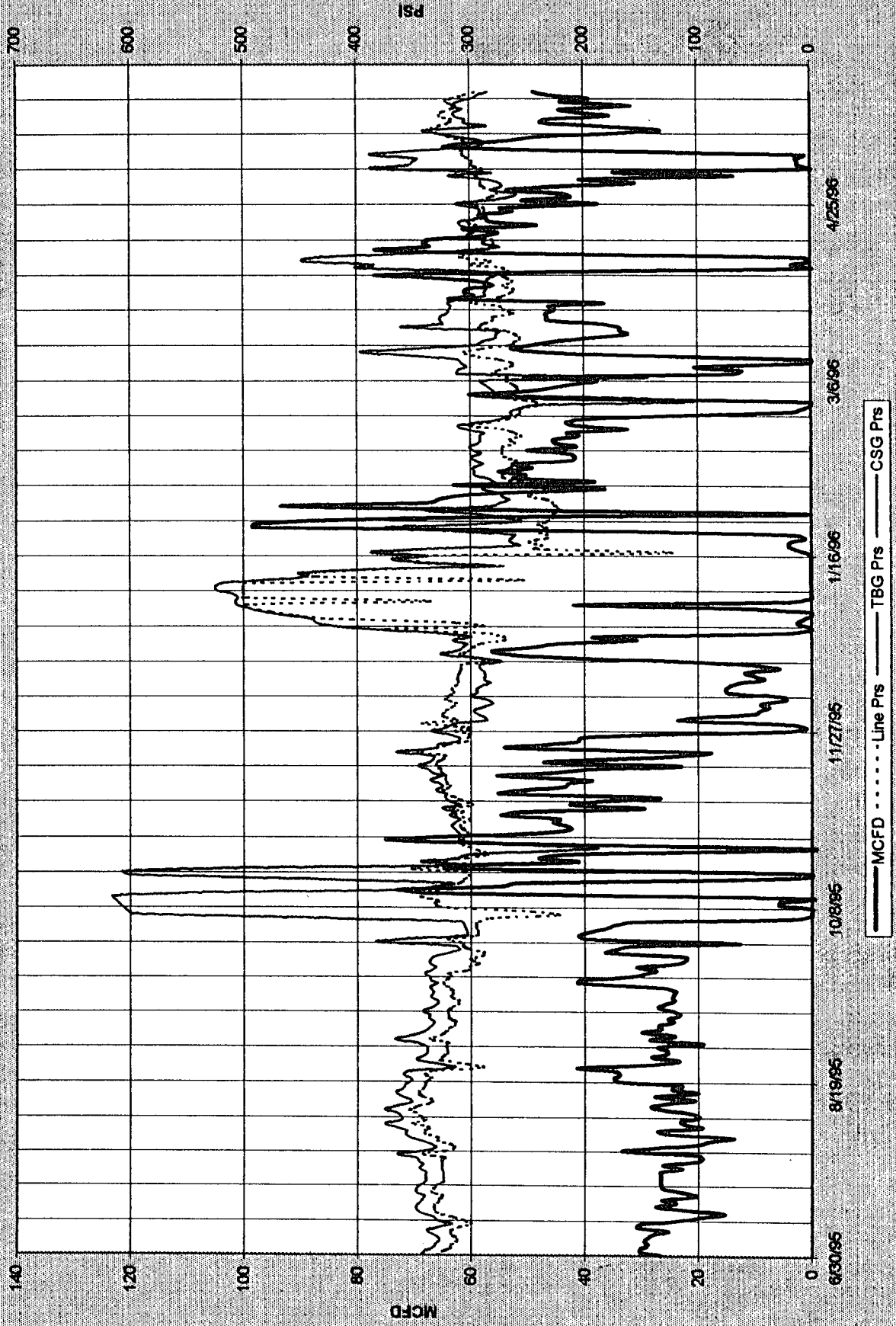
BASSETT Chart 2

Bassett Com 1M - MesaVerde



BASSETT Chart 1

Bassett Com 1M - Dakota



***ESTIMATED BOTTOMHOLE PRESSURES BY FORMATION***  
**Bassett Com #1M**

MV midperf at 4620'  
DK midperf at 6912'

10/95 shut in pressures --- MV = 525 PSIG  
DK = 615 PSIG

GRADIENT = 0.02 PSI/FT

MV BHP = 525 PSIG + 4620' X 0.02 PSIG  
= 617 PSIG

DK BHP = 615 PSIG + 6912' X 0.02 PSIG  
= 753 PSIG



**OFFSET OPERATORS**

**Bassett Com #1M**

Conoco, Inc.  
10 Desta Drive West  
Midland, Texas 79705

Meridian Oil, Inc.  
P.O. Box 4289  
Farmington, NM 87499

Texaco E&P Inc.  
P.O. Box 2100  
Denver, Colorado 80201