

11/17/98 12/7/98 DC KN DHC

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

241

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling
☐ NSL ☐ NSP ☐ DD ☐ SD

NOV 17 1998

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Officer, Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, I, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity

GARY BRINK
Print or Type Name

Signature

Title

Production Supt.

11/16/98
Date



TAURUS EXPLORATION, INC.
2198 Bloomfield Highway
Farmington, New Mexico 87401
Telephone (505) 325-6800

November 16, 1998

Ms. Lori Wrotenberry
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

RE: Administrative Approval to Downhole Commingle
Taurus Exploration U.S.A., Inc.
Culpepper Martin 4M
1720' FSL, 1725' FEL, Sec. 6, T31N, R12W, N.M.P.M.
San Juan County, New Mexico

Dear Ms. Wrotenberry:

Taurus Exploration U.S.A., Inc. requests administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. The well is currently producing as a Mesa Verde/Dakota dual completion. The Dakota has experienced liquid loading problems and it is felt downhole commingling will eliminate excessive operational expenditures to keep the zone unloaded and utilize the Mesa Verde flowstream to keep it producing.

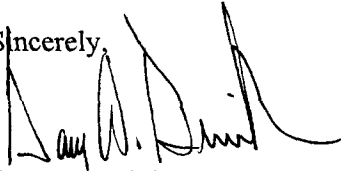
To comply with New Mexico Oil Conservation Rules, Taurus Exploration U.S.A., Inc. is submitting the following data for your approval of the proposed commingling:

1. For C107A - Application for Downhole Commingling
2. C-102 - Location plat showing each spacing unit and dedicated acreage
3. Production curves for both the Mesa Verde and Dakota
4. Offset operator plat
5. Well location plat.

In accordance to New Mexico Oil Conservation Division Rule 303C, all offset operators are being notified of this application by certified mail. As an offset operator, if you have no objection to this application, you do not have to respond to this notification.

If additional information is needed, please contact me.

Sincerely,



Gary W. Brink
Production Superintendent

GWB/mt

cc: NMOCD - Aztec, Offset operators
F:\MONICA\PRODUCT\OCD\CULPEPPER MARTIN 4M 11-98.DOC

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-25109	² Pool Code 72319/71599	³ Pool Name Blanco MesaVerde/Basin Dakota
⁴ Property Code 21197	⁵ Property Name Culpepper Martin	⁶ Well Number 4M
⁷ OGRID No. 162928	⁸ Operator Name Taurus Exploration U.S.A., Inc.	⁹ Elevation 5915


¹⁰ Surface Location

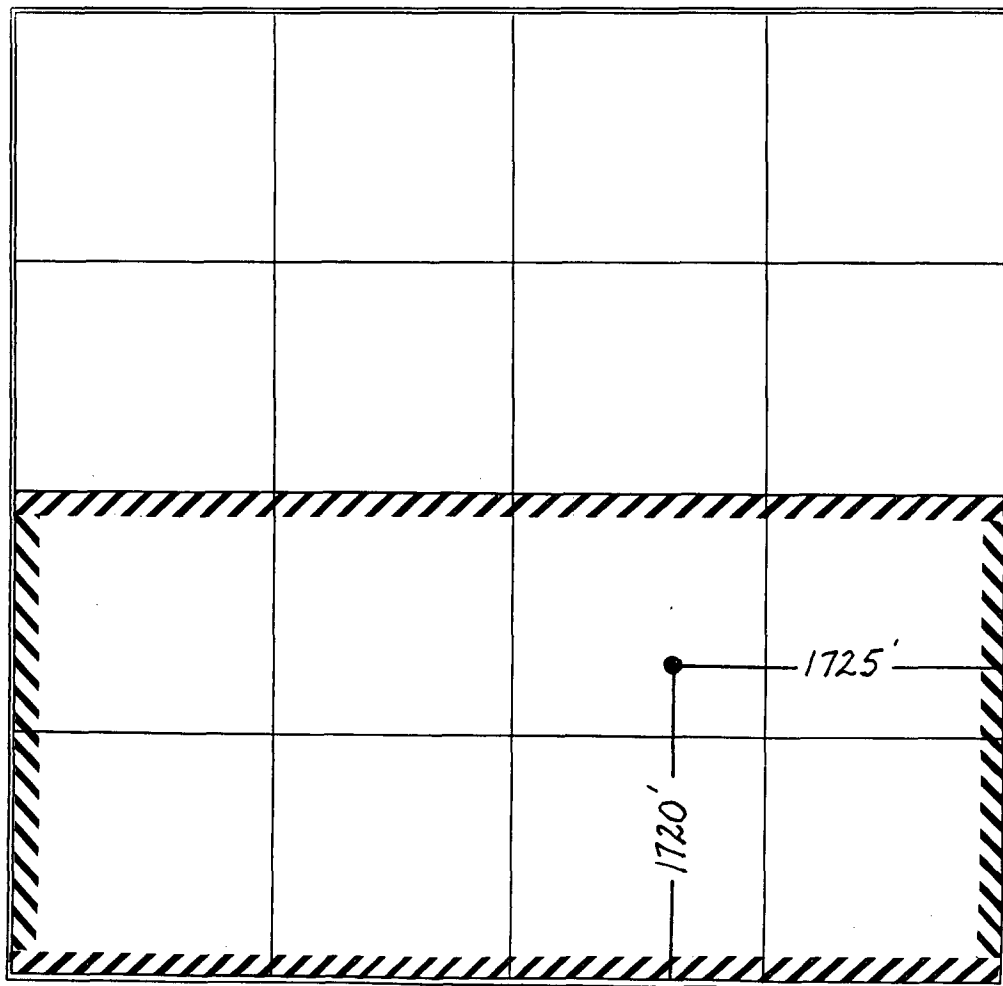
UL or lot no. J	Section 6	Township 31N	Range 12W	Lot. Idn	Feet from the 1720	North/South Line South	Feet from the 1725	East/West line East	County San Juan\
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Dedicated Acres 315.48/315.48	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

						¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Gary Brink Printed Name Production Superintendent Title November 16, 1998 Date
						¹⁸ SURVEYOR CERTIFICATION <i>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 belief.</i> June 17, 1981 Date of Survey Signature and Seal of Professional Surveyer: Reissue of Original Survey by Fred B. Kerr Certificate Number



DISTRICT I

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

DISTRICT II

811 S. First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 875054-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Taurus Exploration U.S.A., Inc. Address 2198 Bloomfield Highway, Farmington, NM 87401Lease Culpepper Martin Well No. 4M Unit Ltr. - Sec - Twp - Rge J Sec. 6 T31N R12W County San JuanOGRID NO. 162928 Property Code 21197 API NO. 30-045-25109 Spacing Unit Lease Types: (check 1 or more)
Federal ☐ 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)	4521 - 4862		6790 - 6957
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	485 CaLc		407 CaLc
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	871 CaLc		1372 CaLc
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content)	1206 BTU		1207 BTU
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	No		Yes
* If Shut-In, give date and oil/gas/water rates of last production	Date: Rates:	Date: Rates:	Date: Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 9/27/98 Rates: .1/85/0	Date: Rates:	Date: 10/17/98 Rates: .2/39/.3
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 33 % Gas: 68 %	Oil: % Gas: %	Oil: 67 % Gas: 32 %

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? ☒ 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? ☒ Yes ☐ No11. Will cross-flow occur? ☐ Yes ☒ 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? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well in 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. ☐ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

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.

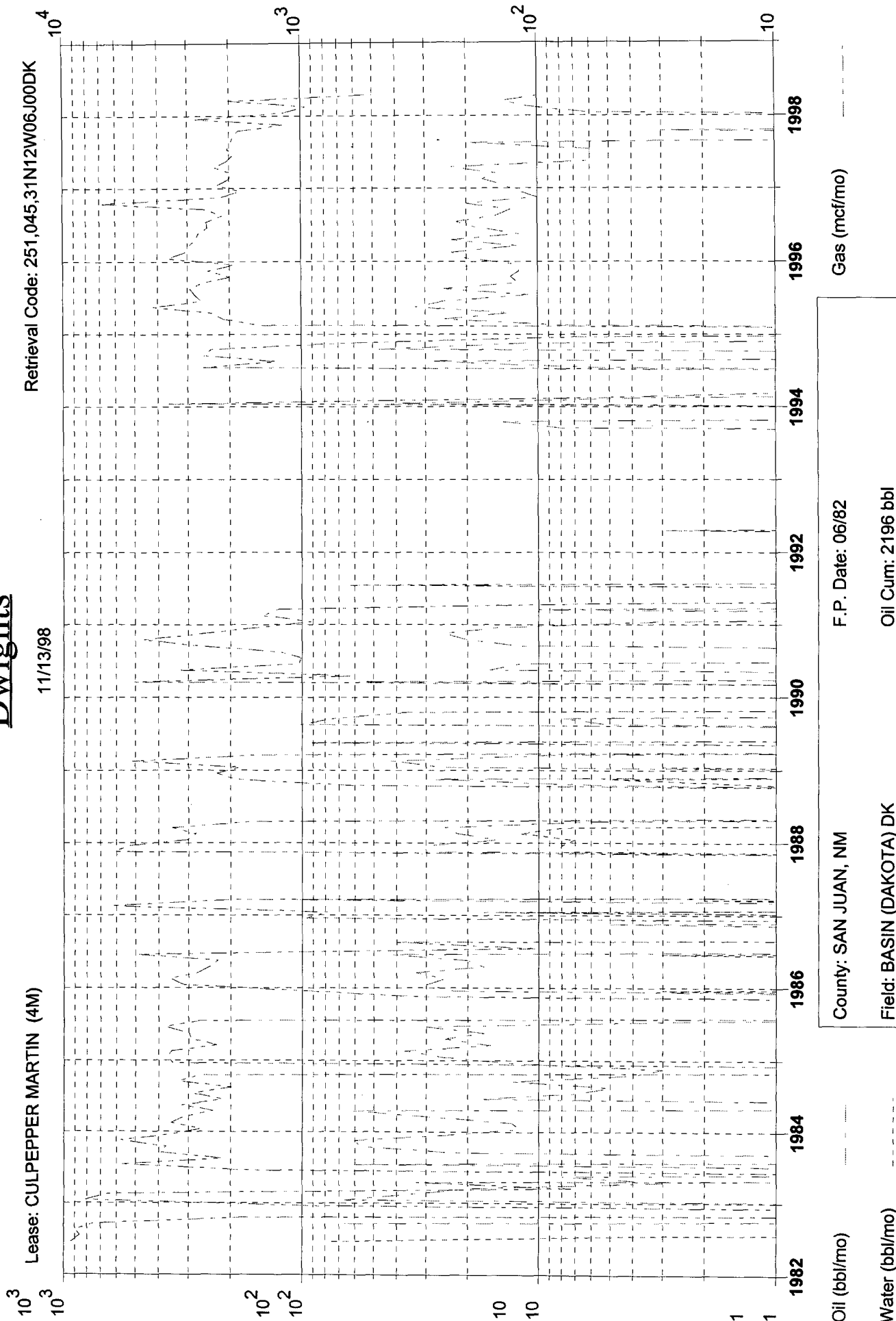
SIGNATURE  TITLE Prod. Superintendent DATE 11/16/98TYPE OR PRINT NAME Gary Brink TELEPHONE NO. (505) 325-6800

Dwights

Lease: CULPEPPER MARTIN (4M)

11/13/98

Retrieval Code: 251,045,31N12W06J00DK



Oil (bbl/mo)

Water (bbl/mo)

Gas (mcf/mo)

F.P. Date: 06/82

Oil Cum: 2196 bbl

Gas Cum: 334.6 mmcf

Location: 6J 31N 12W

County: SAN JUAN, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator TAURUS EXPLORATION U.S.A.

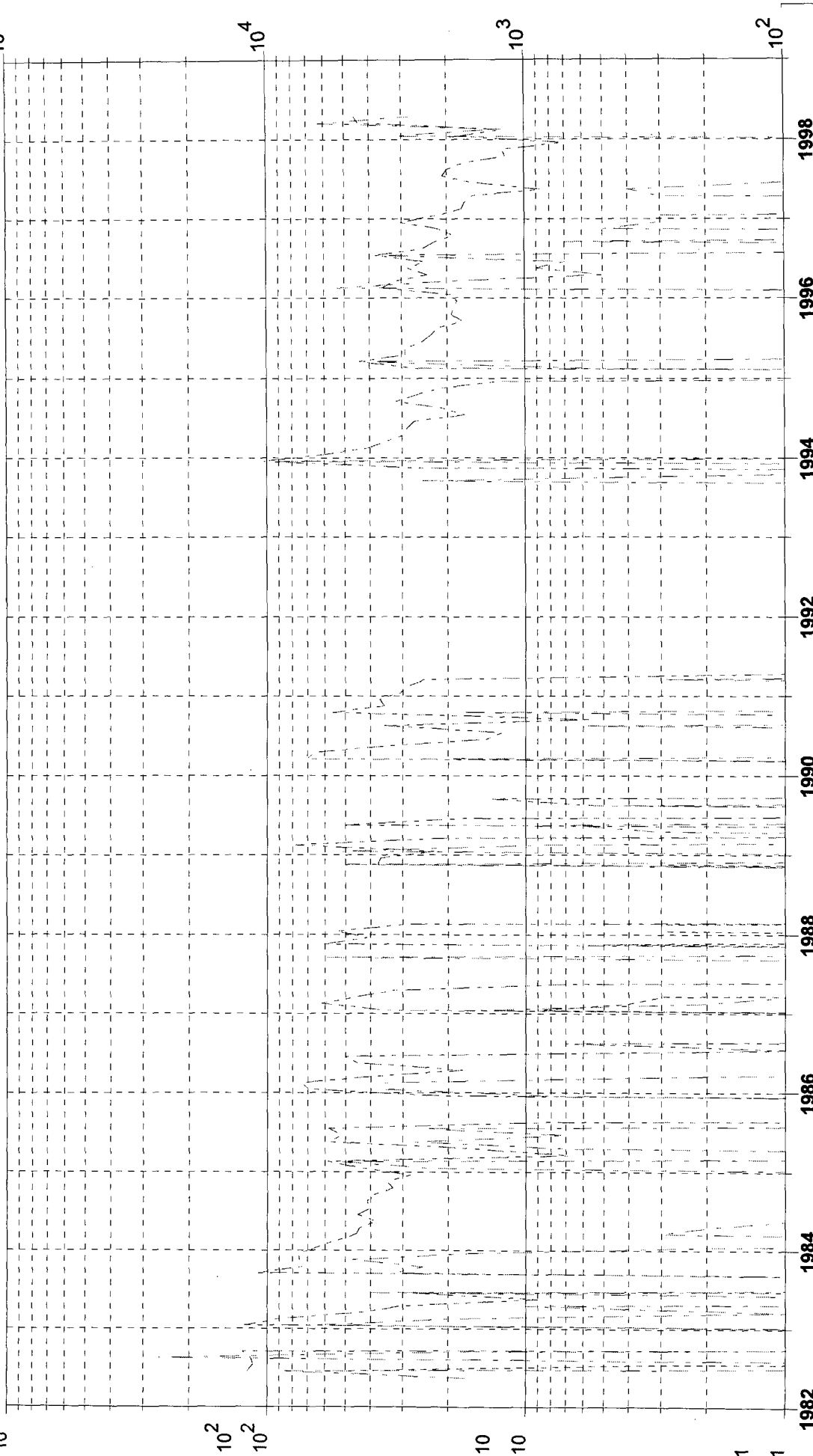
Dwights

Lease: CULPEPPER MARTIN (4M)

Retrieval Code: 251,045,31N12W06J00MV

11/13/98

10³ 10³ 10² 10² 10 10 1 1



Oil (bbl/mo)

Gas (mcf/mo)

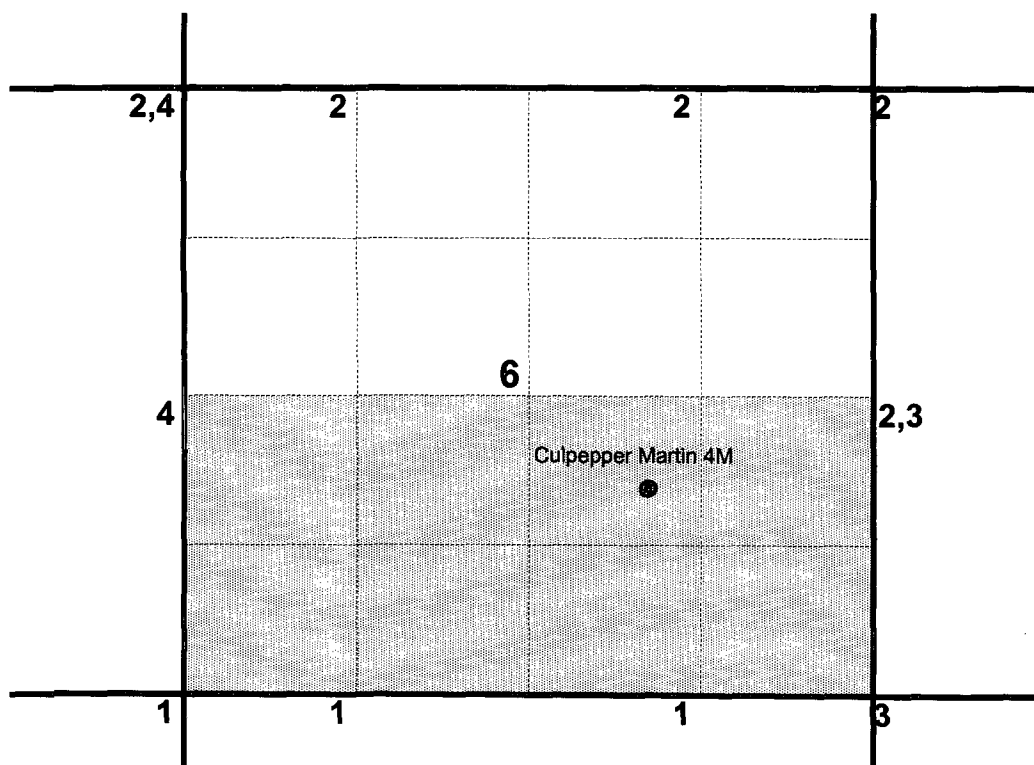
Water (bbl/mo)

County: SAN JUAN, NM
Field: BLANCO (MESAVERDE) MV
Reservoir: MESAVERDE
Operator TAURUS EXPLORATION U.S.A.
F.P. Date: 05/82
Oil Cum: 1586 bbl
Gas Cum: 473.0 mmcf
Location: 6J 31N 12W

Taurus Exploration U.S.A., Inc

Culpepper Martin # 4M
Offset Operator / Ownership Plat
Blanco Mesa Verde/ Basin Dakota
Downhole Commingling

Township 31 N, Range 12 W



- 1) Taurus Exploration U.S.A., Inc
- 2) Burlington Resources
P.O. Box 4289
Farmington, N.M. 87499-4289
- 3) Chateau Oil & Gas, Inc.
5802 U.S. Hwy 64
Farmington, N.M. 87401
- 4) Hallwood Petroleum Inc.
4582 S. Ulster Street Pkwy, Suite 1700
Denver, Co. 80237

Taurus Exploration U.S.A., Inc.

Well Location Plat

Culpepper Martin #4M

Unit J, Section 6, T 31 N, R 12 W

San Juan Co., N.M.

23

19

T.D.7219' (Jm-WW)

3
Kpc # D.A.
Kd # D.A.'81

4
Kfc
Kd-Abd.'93

1
Kfc PA.'94
Kmv
Kd Abd.'97

8A

26

2
3
Kfc

1M

Kmv
Kd

25

1
2
Kfc
Kmv
Kd PA.'89

9

9A

30

107

2A

2

Kmv
Kd # D.A.'51

T
32
N

2
1
Kfc
Kmv
Kd PA.'94

2A
Kmv
Kd

35

1A

35

35

1
Kmv PA.'95

1
Kmv
Kd PA.'94

1M
Kmv
Kd

1A

1
Kmv
Kd PA.'94

36

Kgl
Kd

1E

36
1
Kmv
Kd PA.'94

1A

5
Kmv
Kd

1A
Kmv
Kd

31

7
5-M
Kmv
Kd

1E
PA.'94
Kmv
Kd

T
31
N

2E
Kd PA.'93
1A

1

H2-2

2
2
1
2
Kd PA.'94

1A

1A

1

Kmv PA.'92

1

1A
2-1

Kmv
Kd

1M
Kmv
Kd

1
Kmv
Kd

6

4M
Kmv
Kd

9
4
Kmv
Kd

R 13 W

12