DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
811 South 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 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS :
__X_ Administrative
___Hearing

EXISTING WELLBORE
_X__ YES ___ NO

Burlington Resources Oil & Gas Company — PO Box 4289, Farmington, NM 87499
Operator — Address

Culpepper Martin | 1A | G-31-32N-12 | San Juan
Lease | Well No. | Unit Ltr. - Sec - Twp - Rge | County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. _14538__ Property Code _6935____ API NO. 30-045-25112___Federal ____ , State __X___, (and/or) Fee __X_____

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)	4213-4808'		6752-6992'
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	(Current) a. 587 psi (see attachment)	a.	a.668 psi (see attachment)
	(Original) b. 767 psi (see attachment)	b.	b. 1011 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1193		BTU 1178
7. Producing or Shut-In?	producing		producing
Production Marginal? (yes or no)	no		yes
* If Shut-In 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:N/A Rates:	Date: Rates:	Date: N/A Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 8/96 Rates: 115 MCF/D, 0 BOPD	Date: Rates:	Date: 8/96 Rates: 68 MCF/D, 0 BOPD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % Will be supplied when completed	Oil: % Gas: %	Oil: % Gas: % Will be supplied when completed

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DIST. 3

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? _X_Yes ____No
Have all offset operators been given written notice of the proposed downhole commingling? _X_Yes ____No

11. Will cross-flow occur? _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. _X____ 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)

14. 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

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 Peggy Bradfield TITLE_RegulatoryAdministrator_DATE 9-25-96_____

TYPE OR PRINT NAME _Peggy Bradfield___ TELEPHONE NO. (505__) 326-9700_____

STATE OF NEW MEXICO
GY AND MINERALS DEPARTMENT

CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1

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

Operator	Lease	Well No.
UNION TEXAS PETROLEUM COMPANY	CULPEPPER-MARTIN	1A

Unit Letter	Section	Township	Range	County
O	31	32N	12W	San Juan

Actual Footage Location of Well:
1850 feet from the North line and 1850 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5812	Mesaverde, Dakota	Blanco Mesaverde, Basin Dakota	E 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

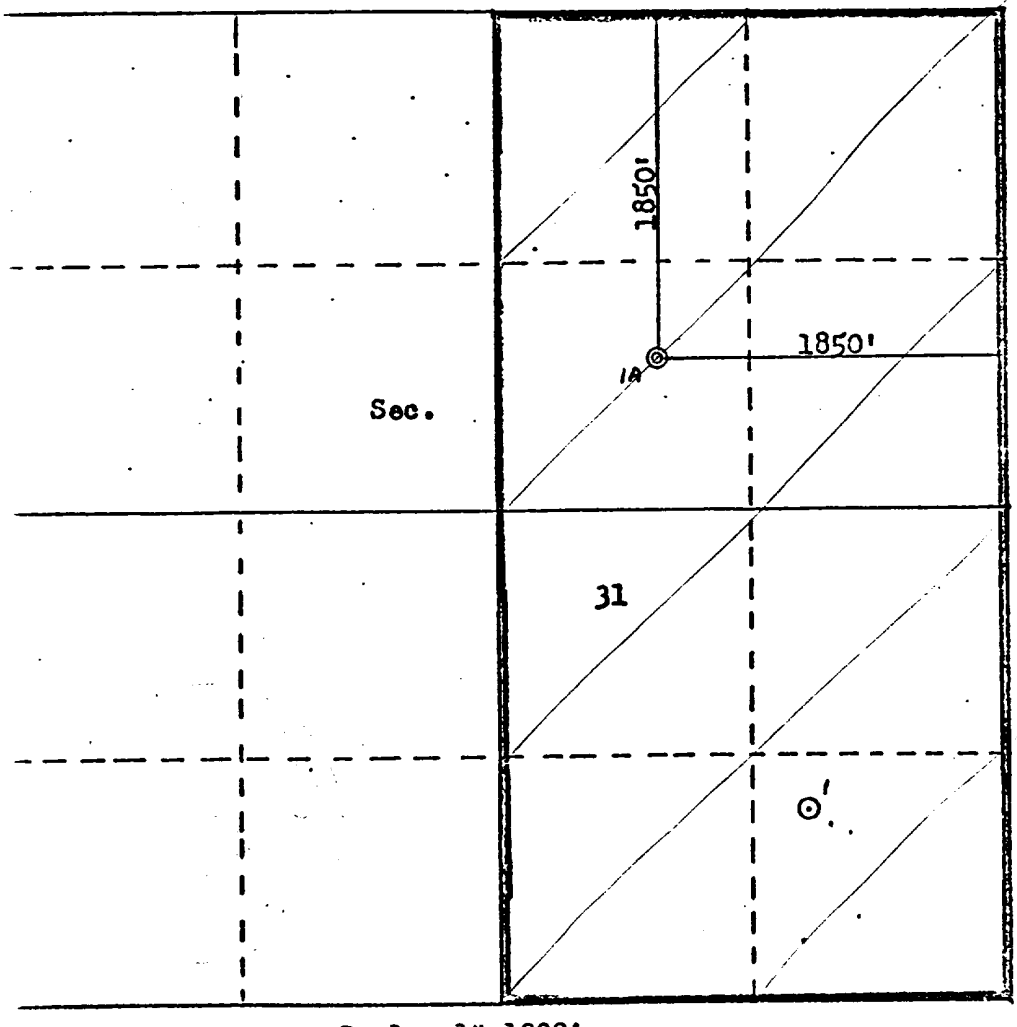
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

Name: Thomas C. Pehlan

Position: District Petroleum Engineer

Company: Union Texas Petroleum Corp.

Date: July 6, 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.

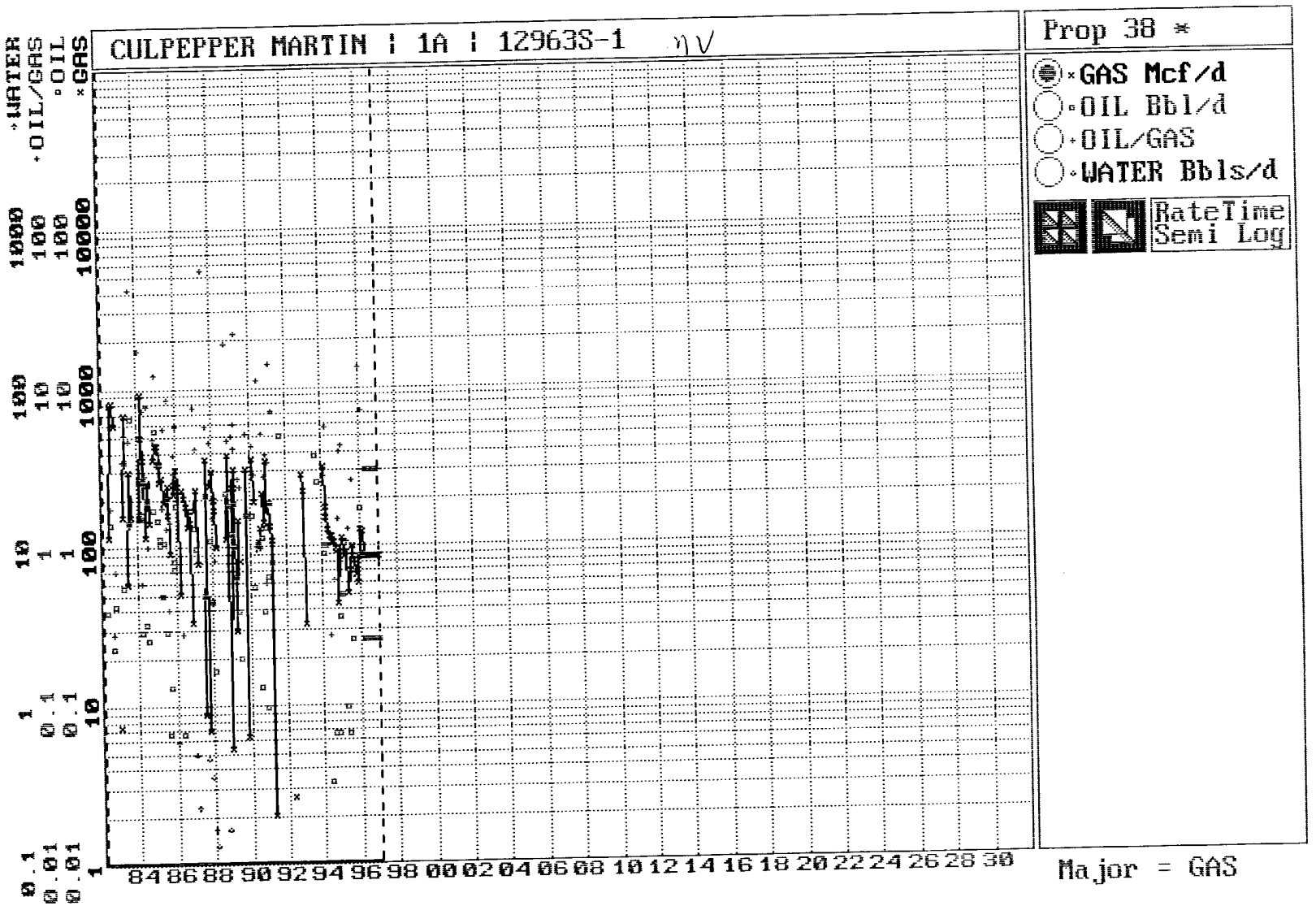
Date Surveyed: June 16, 1981

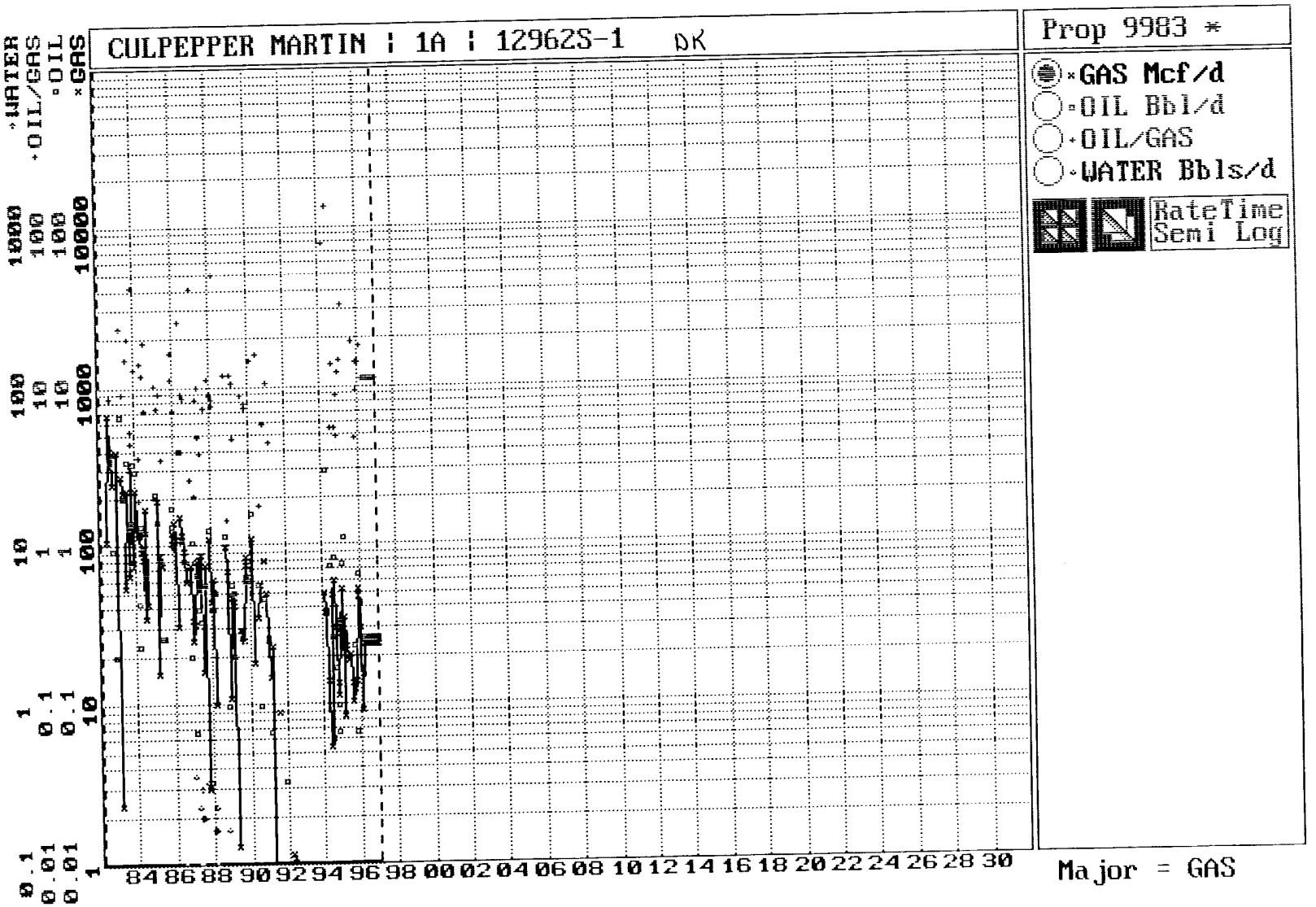
Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.

Certificate No. NMLS

3950


CULPEPPER MARTIN | 1A | 12963S-1
Prop 38 *
GAS Mcf/d
OIL Bbl/d
OIL/GAS
WATER Bbls/d
RateTime
Semi Log
WATER
OIL/GAS
OIL
GAS
84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30
Major = GAS

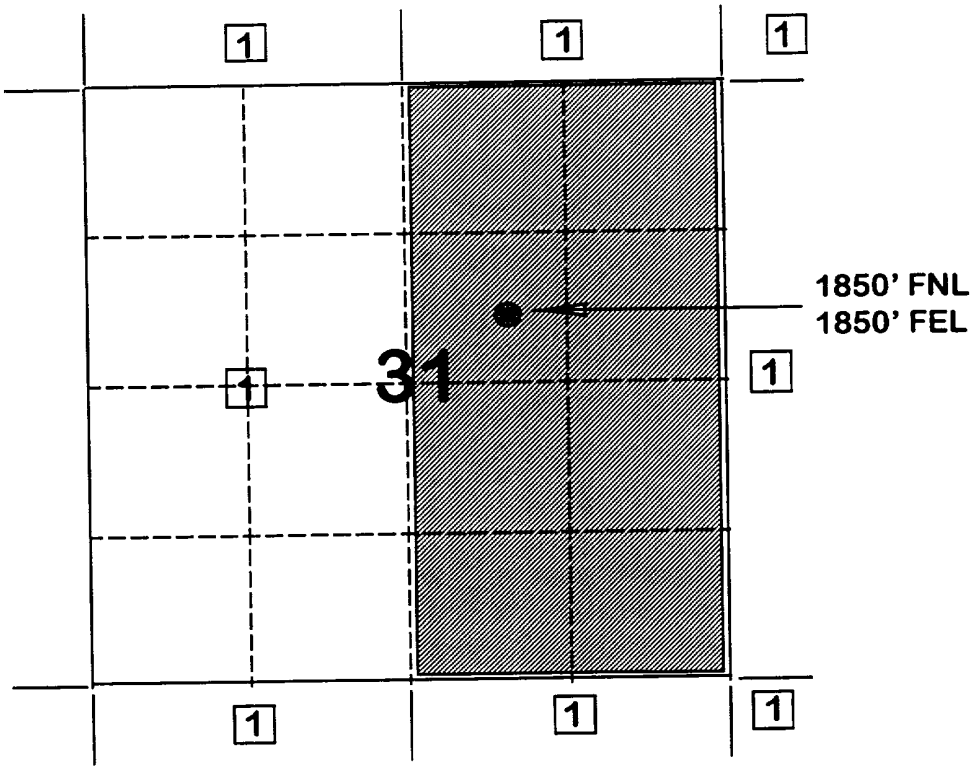

CULPEPPER MARTIN | 1A | 12962S-1 DK
Prop 9983 *
GAS Mcf/d
OIL Bbl/d
OIL/GAS
WATER Bbls/d
RateTime
Semi Log
WATER
OIL/GAS
OIL
GAS
84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30
Major = GAS

BURLINGTON RESOURCES OIL AND GAS COMPANY

CULPEPPER MARTIN #1A
OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 32 North, Range 12 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C
%N2	0.16
%CO2	0.78
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	6992
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	849
BOTTOMHOLE PRESSURE (PSIA)	1010.7

CULPEPPER MARTIN #1A DAKOTA - (ORIGINAL)

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C
%N2	0.16
%CO2	0.78
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	6992
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	565
BOTTOMHOLE PRESSURE (PSIA)	667.8

CULPEPPER MARTIN #1A DAKOTA - (CURRENT)

---------- DWIGHTS TEST DATA REPORT ---------- ROW 1 OF 5
SCROLL ===> PAGE

COMMAND ===>

State: 30 Lease Name: CULPEPPER MARTIN
Prod: 2 County Name: SAN JUAN
Ident: 32N12W31G00DK Reservoir Name: DAKOTA
District: 4 Operator Name: MERIDIAN OIL INC
Location: 31G 32N 12W Field Name: BASIN (DAKOTA)
Retrieval code: 251,045,32N12W31G00DK Well: 00001A Total Depth: 7100
Gas Gath: WFS Status: ACT Upper Perf: 0
API No: 2511200 Comp Date: 000000 Lower Perf: 0

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z FA
19820808	27,273	849	0	0	0	0	494	532		2	0.00
19840418	117,564	547	0	0	0	0	455	118		2	0.00
19850515	145,216	574	0	0	0	0	453	95		2	0.00
19880323	200,076	366	0	0	0	0	309	15		2	0.00
19920401	229,856	565	0	0	0	0	360	178		2	0.00

********** BOTTOM OF DATA **********

F1=HELP F2=SPLIT F3=END F4=RETURN F5=RFIND F6=RCHANGE
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE
B MY JOB LU #25

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	**0.696**
COND. OR MISC. (C/M)	**C**
%N2	**0.16**
%CO2	**0.74**
%H2S	**0**
DIAMETER (IN)	**2.5**
DEPTH (FT)	**4808**
SURFACE TEMPERATURE (DEG F)	**60**
BOTTOMHOLE TEMPERATURE (DEG F)	**150**
FLOWRATE (MCFPD)	**0**
SURFACE PRESSURE (PSIA)	**677**
BOTTOMHOLE PRESSURE (PSIA)	767.2

CULPEPPER MARTIN #1A MESAVERDE - (ORIGINAL)

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.696
COND. OR MISC. (C/M)	C
%N2	0.16
%CO2	0.74
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	4808
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	520
BOTTOMHOLE PRESSURE (PSIA)	587.3

CULPEPPER MARTIN #1A MESAVERDE - (CURRENT)

---------- DWIGHTS TEST DATA REPORT ---------- ROW 1 OF 4
SCROLL ===> PAGE
COMMAND ===>

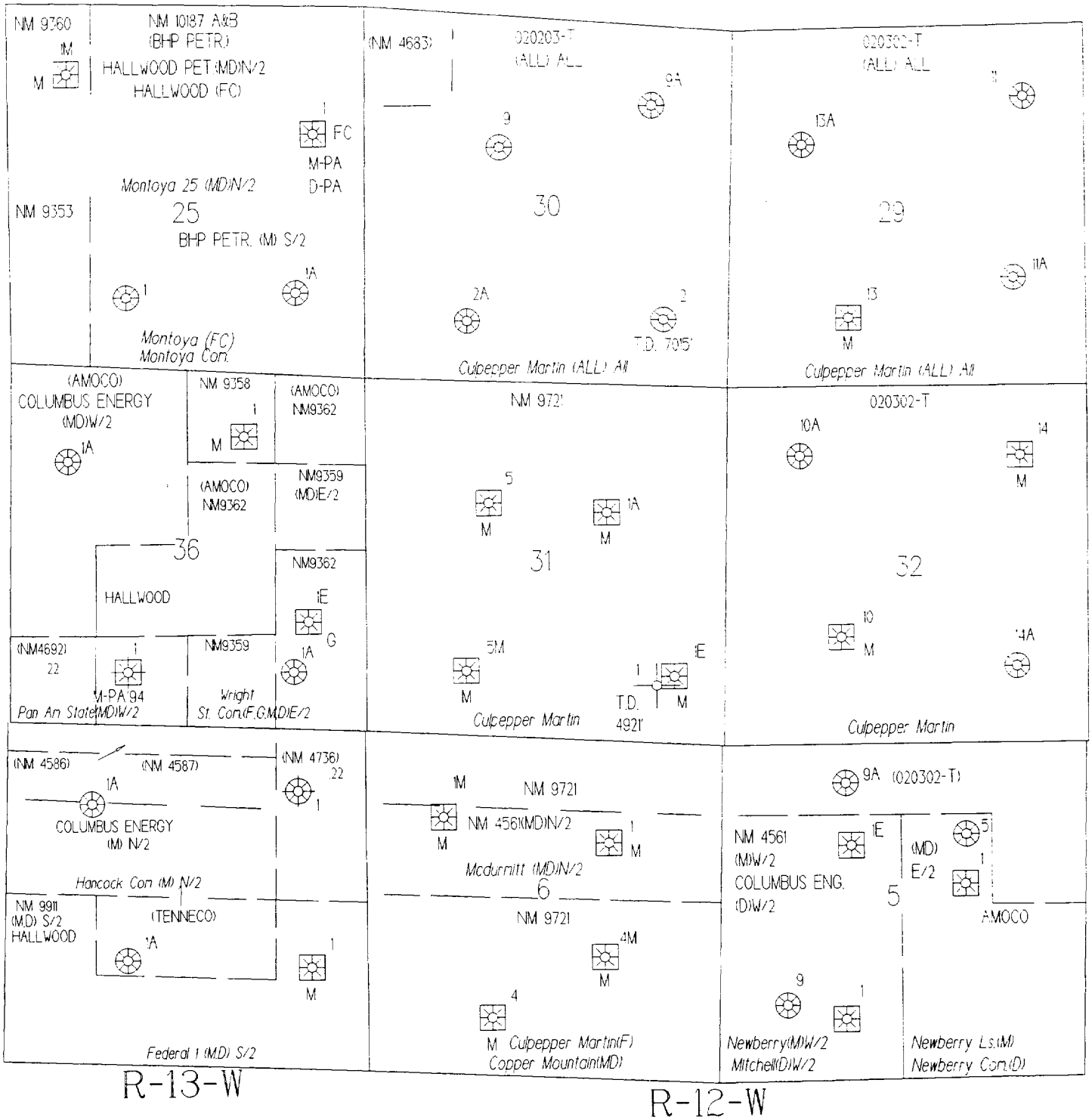
State: 30 Lease Name: CULPEPPER MARTIN
Prod: 2 County Name: SAN JUAN
Ident: 32N12W31G00MV Reservoir Name: MESAVERDE
District: 4 Operator Name: MERIDIAN OIL INC
Location: 31G 32N 12W Field Name: BLANCO (MESAVERDE)
Retrieval code: 251,045,32N12W31G00MV Well: 00001A Total Depth: 7100
Gas Gath: WFS Status: ACT Upper Perf: 0
API No: 2511200 Comp Date: 000000 Lower Perf: 0

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z FA
19830501	97,407	677	0	0	0	0	518	632		2	0.00
19840418	168,117	619	0	0	0	0	456	405		2	0.00
19860312	320,594	542	0	0	0	0	430	170		2	0.00
19891101	469,582	520	0	0	0	0	324	435		2	0.00

********** BOTTOM OF DATA **********

F1=HELP F2=SPLIT F3=END F4=RETURN F5=RFIND F6=RCHANGE
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE
B MY JOB LU #25

CULPEPPER MARTIN #1A
BLANCO MESAVERDE/BASIN DAKOTA
SECTION 31, T32N, R12W



R-13-W

R-12-W

T 32 N

PRODUCTION ALLOCATION FORMULA METHOD

Culpepper Martin #1A
(Mesaverde/Dakota) Commingle
Unit G, NE/4, 31-T32N-R12W
San Juan County, New Mexico

Allocation Formula Method:

Current Production from Mesaverde formation = 100 MCFD

Current Production from Dakota formation = 28 MCFD

$$\frac{[(MV \,\&\, DK)\ 128\ \text{MCFD} - (MV)\ 100\ \text{MCFD}]}{(MV \,\&\, DK)\ 128\ \text{MCFD}} = (\text{DK})\ \%$$

Dakota 22%

$$\frac{[(MV \,\&\, DK)\ 128\ \text{MCFD} - (DK)\ 28\ \text{MCFD}]}{(MV \,\&\, DK)\ 128\ \text{MCFD}} = (\text{MV})\ \%$$

Mesaverde 78%