

DATE IN 9/1/98	SUSPENSE 9/21/98	ENGINEER DC	LOGGED BY KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2040 South Pacheco, Santa Fe, NM 87505



2109

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

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]

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

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

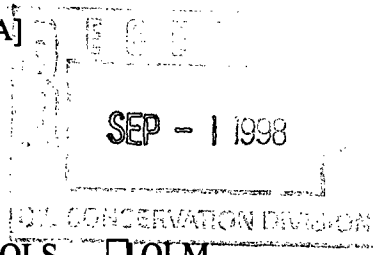
Check One Only for [B] or [C]

[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] ☒ Offset 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 - Certification

I 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, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

Culpepper Martin

16

D 04-31N-12W

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. 30-045-11821 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)	will be supplied upon completion		6693-6904
3. Type of production (Oil or Gas)	gas		gas
4. Method of Production (Flowing or Artificial Lift)	flowing		flowing
5. Bottomhole Pressure	(Current) a. 678 psi (see attachment)	a.	a. 986 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1197 psi (see attachment)	b.	b. 2445 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1189		BTU 1164
7. Producing or Shut-in?	shut in		producing
Production Marginal? (yes or no)	no		yes
* If Shut-In and oil/gas/water rates of last production	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

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 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. ☒ 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 Sean Woolverton TITLE: Reservoir Engineer DATE: 08-31-98TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-103
Revised February 21, 1998
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 30-045-11821		2 Pool Code 723-9/71599		3 Pool Name Blanco Mesaverde/Basin Dakota	
4 Property Code 6935		5 Property Name CULPEPPER MARTIN			6 Well Number 16
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			9 Elevation 5989'

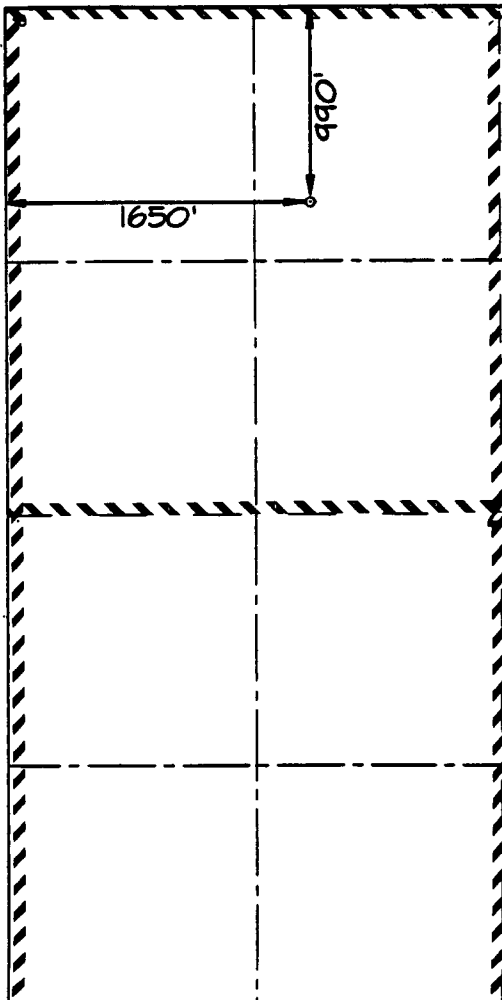
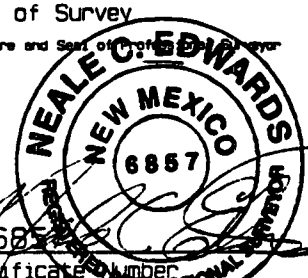
10 Surface Location

11 UL or lot no. C	12 Section 4	13 Township 31N	14 Range 12W	15 Lot Idn	16 Feet from the 990	17 North/South line NORTH	18 Feet from the 1650	19 East/West line WEST	20 County SAN JUAN
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11 Bottom Hole Location If Different From Surface

21 UL or lot no.	22 Section	23 Township	24 Range	25 Lot Idn	26 Feet from the	27 North/South line	28 Feet from the	29 East/West line	30 County
31 Dedicated Acres MV-N/320 DK-W/320		32 Joint or Infill		33 Consolidation Code		34 Order No.			

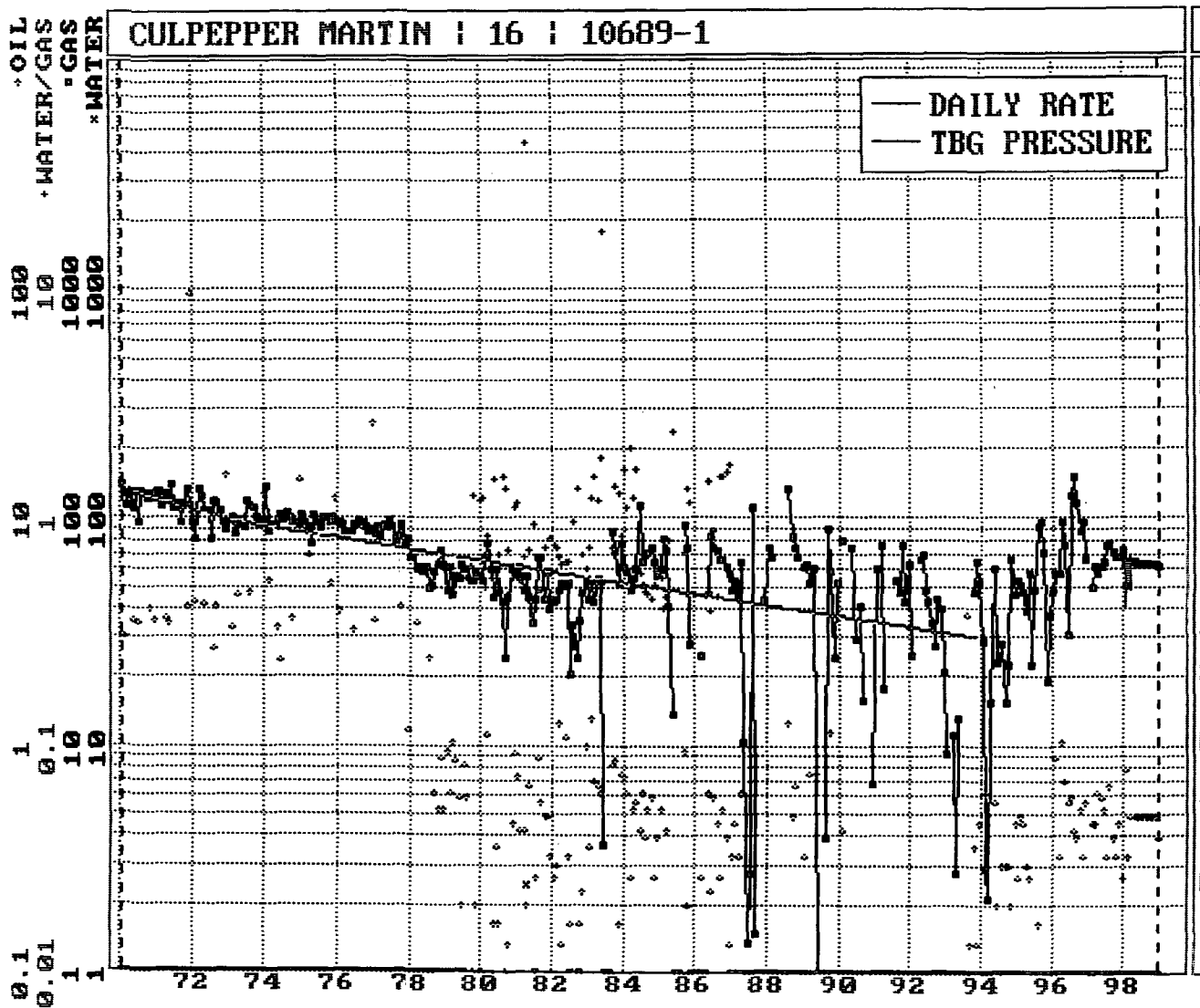
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	*NOT RESURVEYED, PREPARED FROM A PLAT DATED 9-22-66 BY ERNEST V. ECHOHAWK.		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.		
			Signature Peggy Bradfield		
			Printed Name Regulatory Administrator		
			Title 8-26-98		
				Date	
				18 SURVEYOR CERTIFICATION 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.	
				AUGUST 24, 1998	
				Date of Survey	
				Signature and Seal of Professional Surveyor	
					
				Certificate Number	

Culpepper Martin #16

Basin Dakota

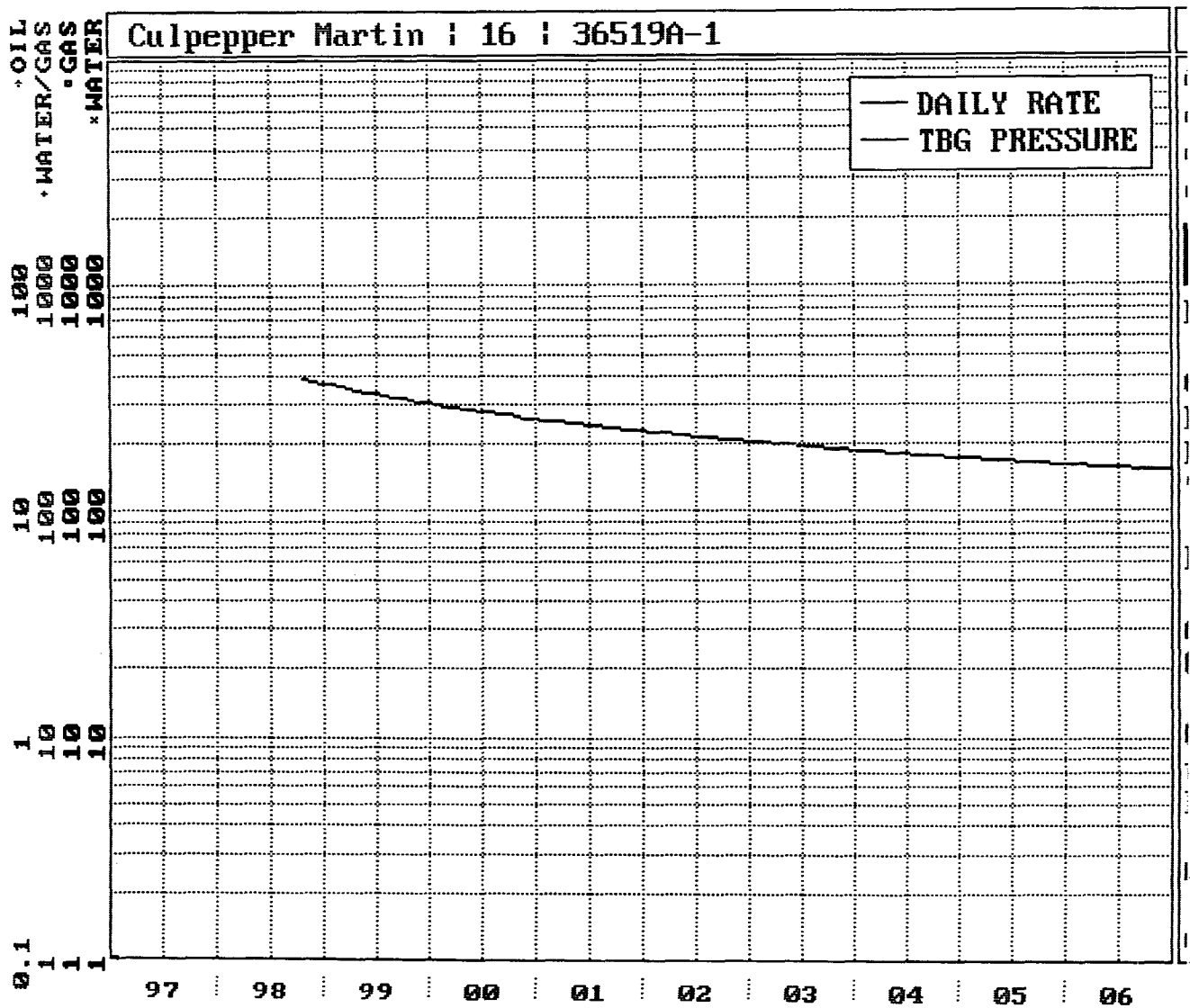
Actual Production



Culpepper Martin #16

Blanco Mesaverde

Expected Production Curve



Culpepper Martin #16

Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.685	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.25	%N2	0.25
%CO2	0.13	%CO2	2.08
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	4894	DEPTH (FT)	7037
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	598	SURFACE PRESSURE (PSIA)	825
BOTTOMHOLE PRESSURE (PSIA)	677.8	BOTTOMHOLE PRESSURE (PSIA)	986.4
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.685	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.25	%N2	0.25
%CO2	0.13	%CO2	2.08
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	4894	DEPTH (FT)	7037
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1045	SURFACE PRESSURE (PSIA)	2005
BOTTOMHOLE PRESSURE (PSIA)	1196.8	BOTTOMHOLE PRESSURE (PSIA)	2445.0

Page No.: 1
Print Time: Thu May 07 16:20:37 1998
Property ID: 11332
Property Name: CULPEPPER MARTIN SRC | 6 | 10670-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

--DATE-- M SIWHP
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08/23/56	1045.0	- original
11/30/70	526.0	
12/31/70	595.0	
01/31/71	542.0	
02/08/71	595.0	
02/28/71	525.0	
03/31/71	571.0	
04/30/71	461.0	
05/31/71	505.0	
06/30/71	529.0	
07/31/71	505.0	
08/31/71	479.0	
03/17/72	542.0	
06/17/73	525.0	
05/02/74	571.0	
06/17/76	461.0	
04/16/78	505.0	
09/08/80	529.0	
08/08/84	505.0	
04/23/86	479.0	
06/10/89	482.0	
04/03/91	557.0	
06/08/91	569.0	
12/29/93	598.0	- current

Culpepper Martin #16

Mesaverde Offset

Page No.: 1
Print Time: Fri May 08 06:58:04 1998
Property ID: 12
Property Name: CULPEPPER MARTIN | 16 | 10689-1
Table Name: C:\ARIES\SUPPS98\TEST.DBF

--DATE-- M SIWHP
■■■■■■■■■■ ■■■Psi■■■

11/04/66	2005.0	- original
07/18/70	874.0	
07/18/72	874.0	
06/17/73	670.0	
04/17/75	655.0	
01/08/77	737.0	
05/01/79	660.0	
07/24/81	897.0	
11/23/83	840.0	
04/03/85	785.0	
11/30/88	739.0	
09/05/90	825.0	- current

Culpepper Martin #16

Basin Dakota

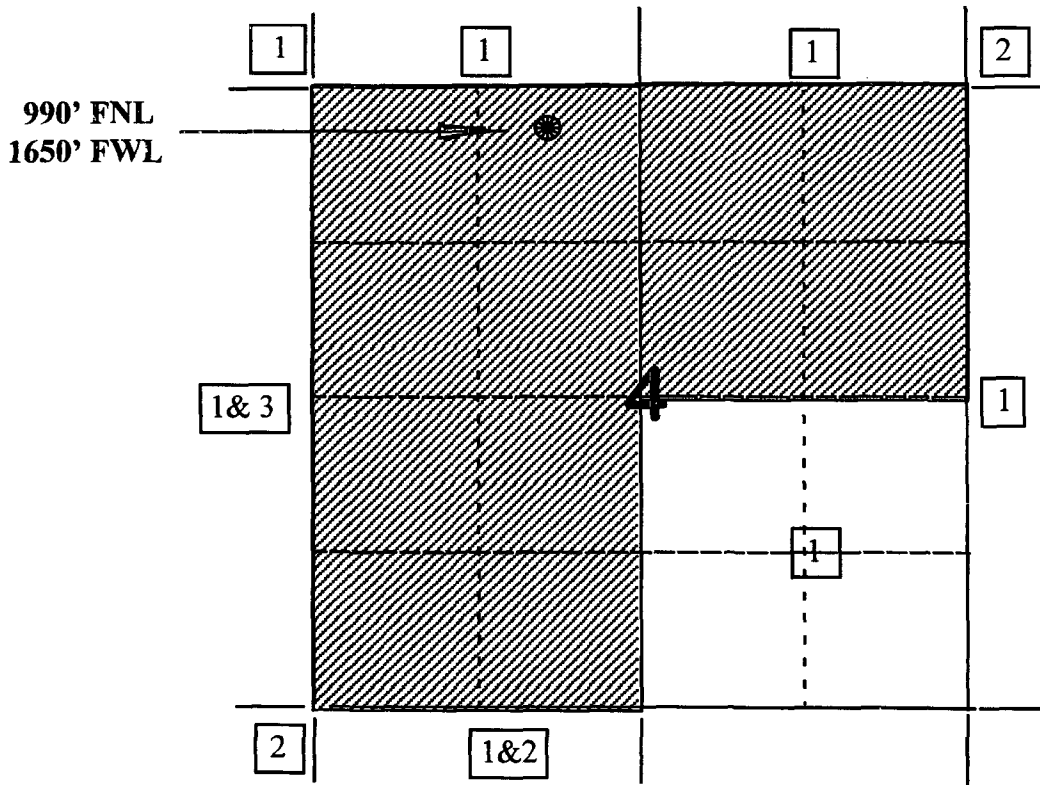
BURLINGTON RESOURCES OIL AND GAS COMPANY

Culpepper Martin #16

OFFSET OPERATOR/OWNER PLAT

Dakota (W/2) / Mesaverde (N/2) Formations Commingle Well

Township 31 North, Range 12 West



- 1) Burlington Resources
- 2) Amoco Production Company
Attn: Steve Trevz
P.O. Box 800
1670 Broadway
Denver, CO 80201

- 3) Conoco Inc.
Attn: Lori Thorpe
10 Desta Drive, Suite 100W
Midland, TX 79705

31N-12W-04

