

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

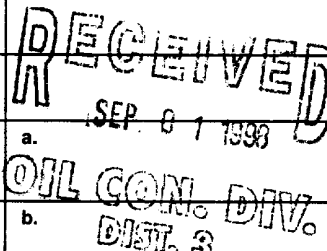
Well No.

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 Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current) 678 psi (see attachment) b. (Original) 1197 psi (see attachment)	a.  b.	a. 986 psi (see attachment) 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 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 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-
Revised February 21, 1988
Instructions on
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-11821		Pool Code 723-9/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 6935	Property Name CULPEPPER MARTIN		Well Number 16
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 5989'

10 Surface Location

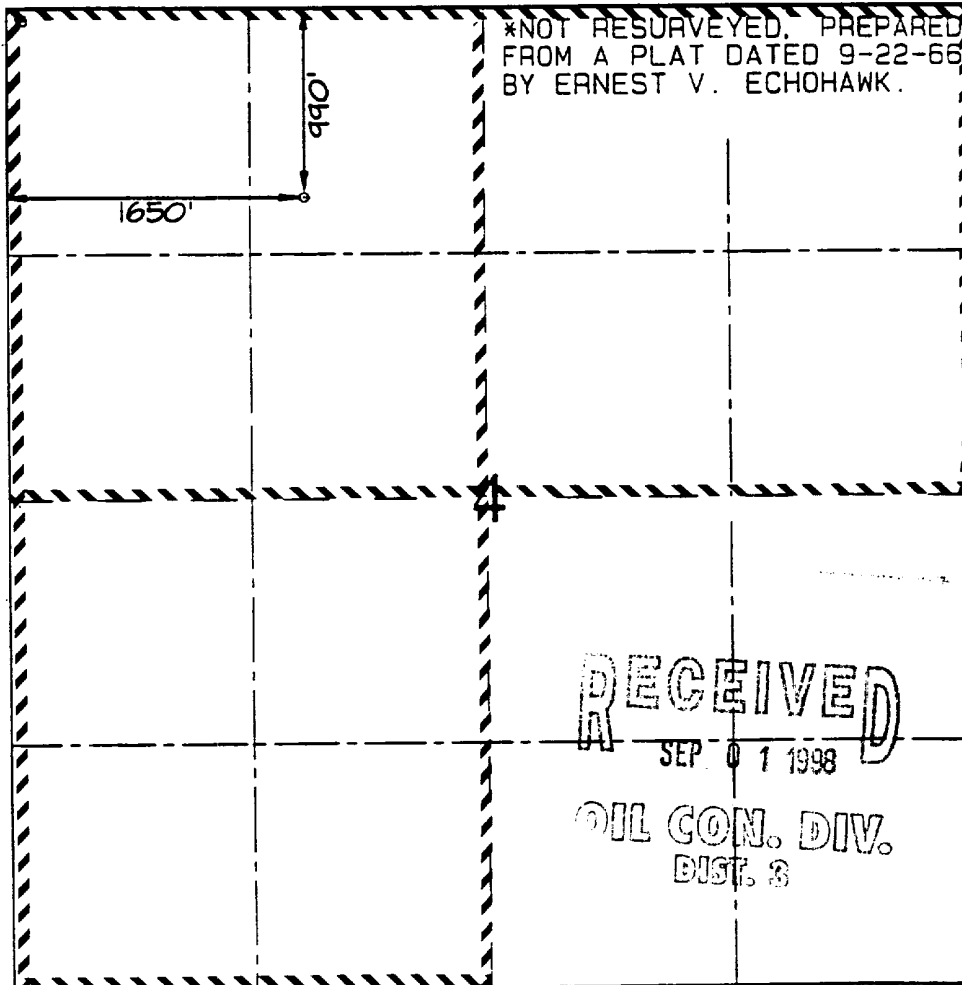
UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
C	4	31N	12W		990	NORTH	1650	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres MV-N/320 DK-W/320	Joint or Infill	Consolidation Code	Order No.
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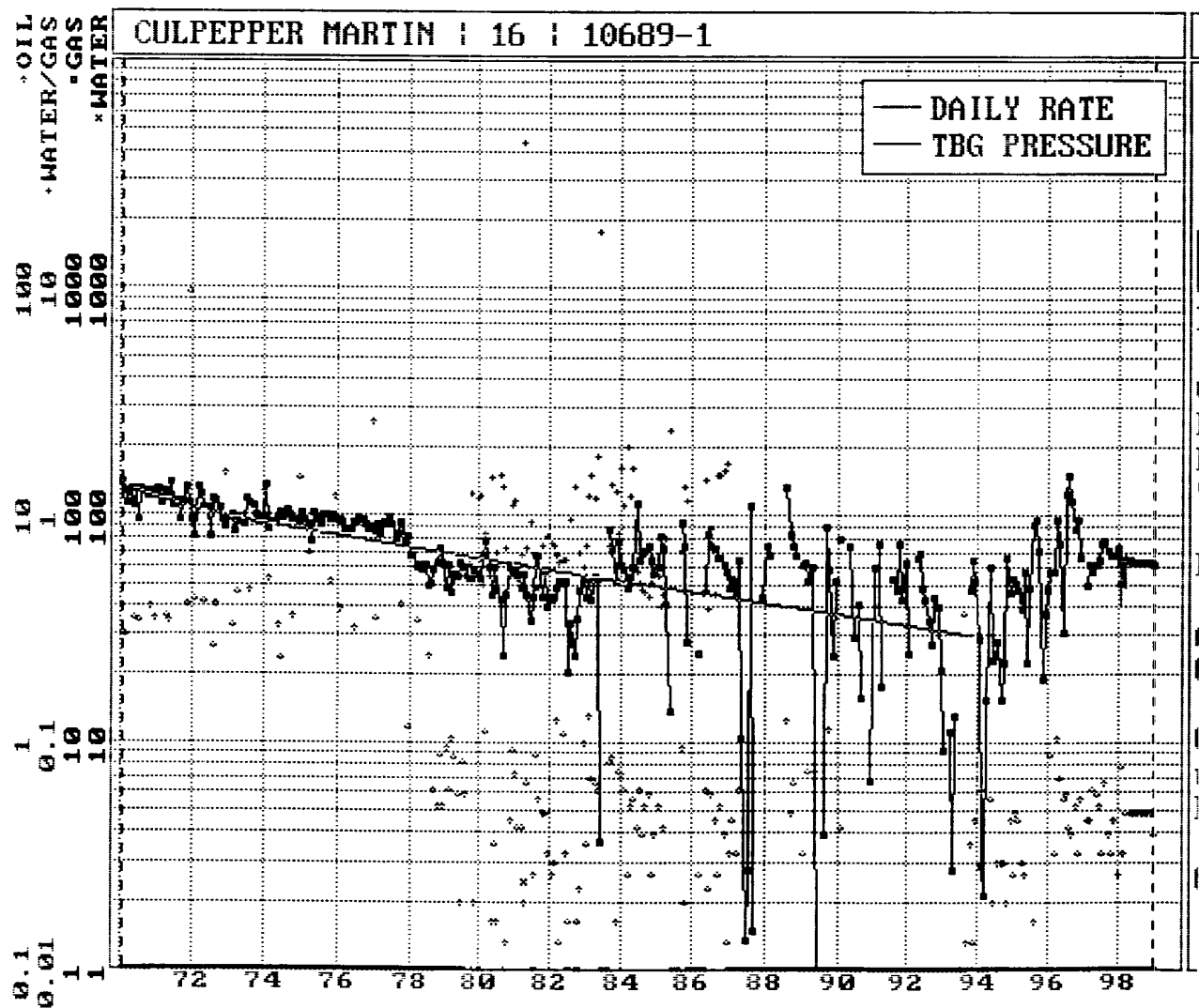
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	*NOT RESURVEYED. PREPARED FROM A PLAT DATED 9-22-66 BY ERNEST V. ECHOHAWK.	17 OPERATOR CERTIFICATION I hereby certify that the information contained here is true and complete to the best of my knowledge and belief. Signature Peggy Bradfield Printed Name Regulatory Administrator Title 8-26-98 Date
	RECEIVED SEP 01 1998 OIL CON. DIV. DIST. 3	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made 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 Neale C. Edwards NEALE C. EDWARDS NEW MEXICO 6857 Certificate Number

Culpepper Martin #16

Basin Dakota

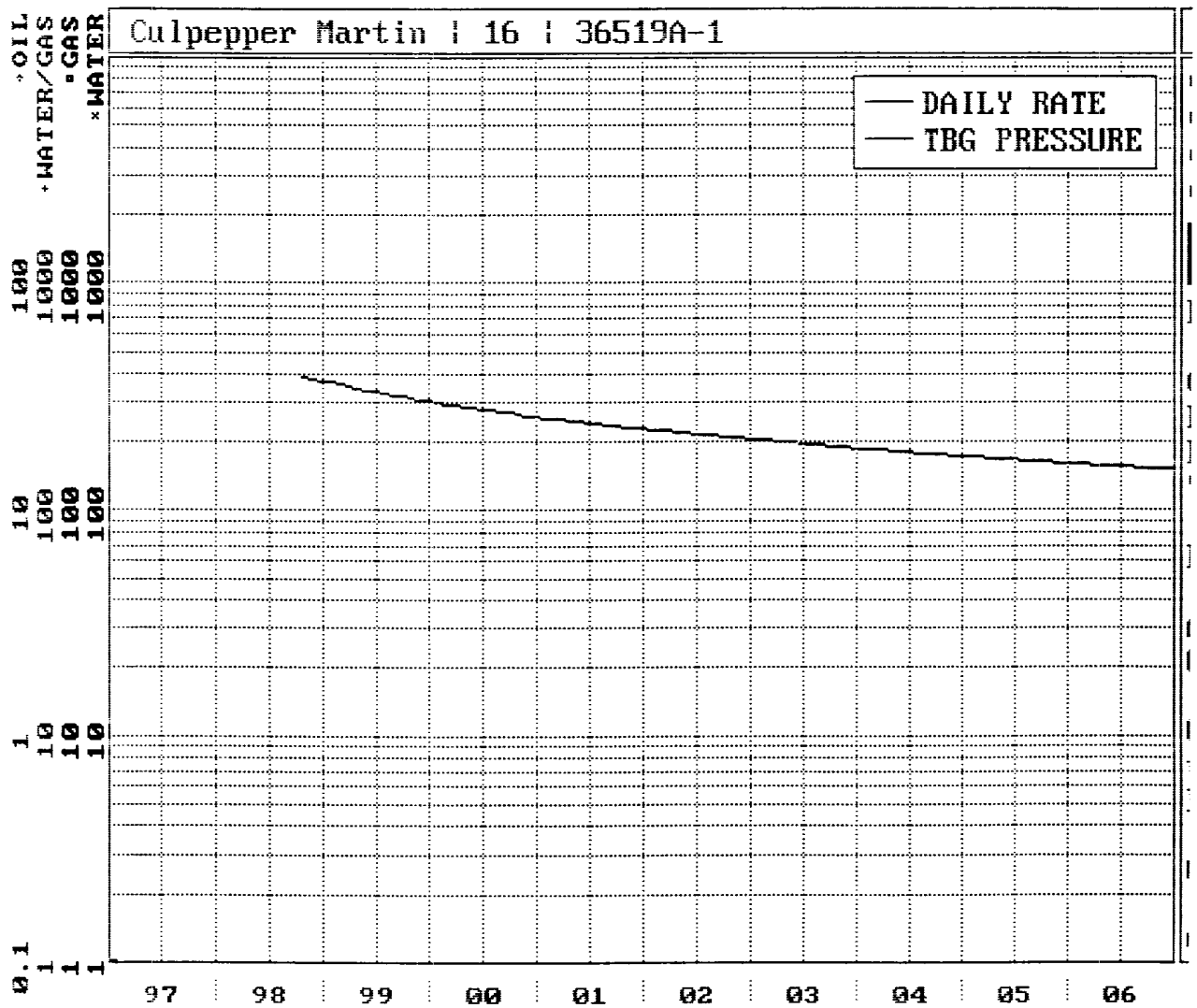
Actual Production



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

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--DATE-- M SIWHP
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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

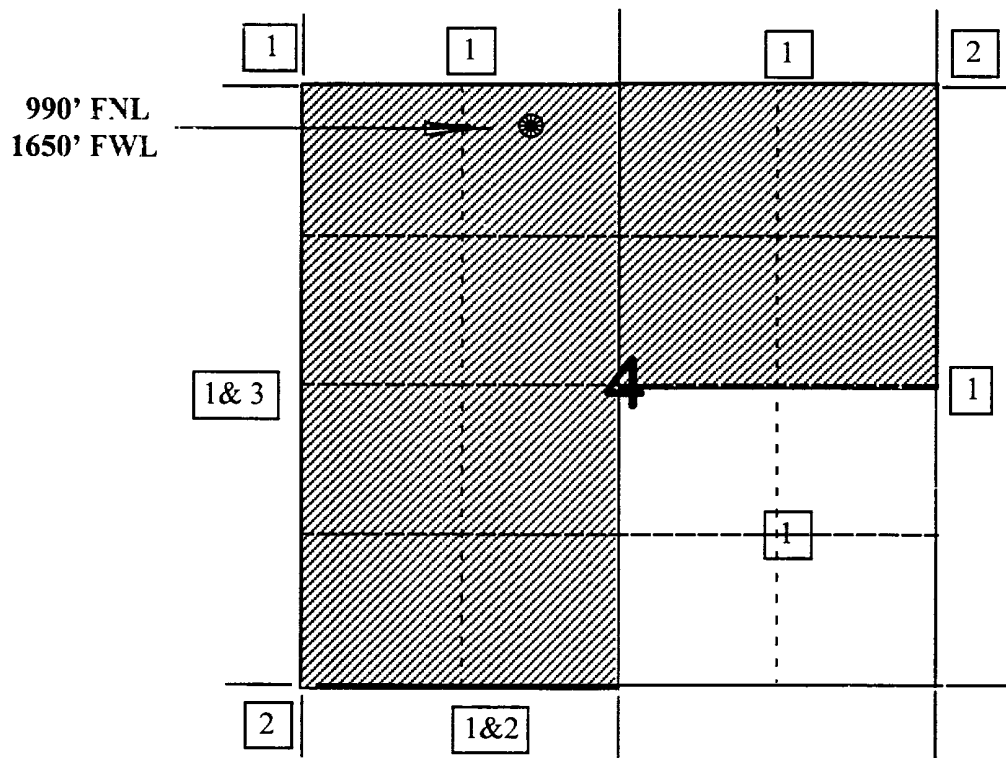
BURLINGTON RESOURCES OIL AND GAS COMPANY

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

