

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 :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

Newberry

12M

P 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 7360 API NO. 30-045-not assigned 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		will be supplied upon completion
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. 551 psi (see attachment) (Original) b. 1244 psi (see attachment)	RECEIVED FEB 25 1998 OIL CON. DIV. DIST. 3 b.	a. 853 psi (see attachment) b. 2531 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1227		BTU 1161
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	no		yes
* If Shut-In and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	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: 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 ☐ No

11. 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 ☐ No

13. 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. NMCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). Reference Order attached

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: Production Engineer DATE: 02-23-98

TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

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

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045	*Pool Code 71599, 72319	*Pool Name Basin Dakota, Blanco Mesaverde
*Property Code 7360	*Property Name NEWBERRY	*Well Number 12M
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	*Elevation 6104'

¹⁰ Surface Location

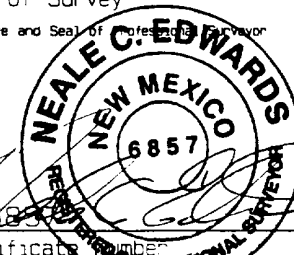
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	31N	12W		970	South	1125	East	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

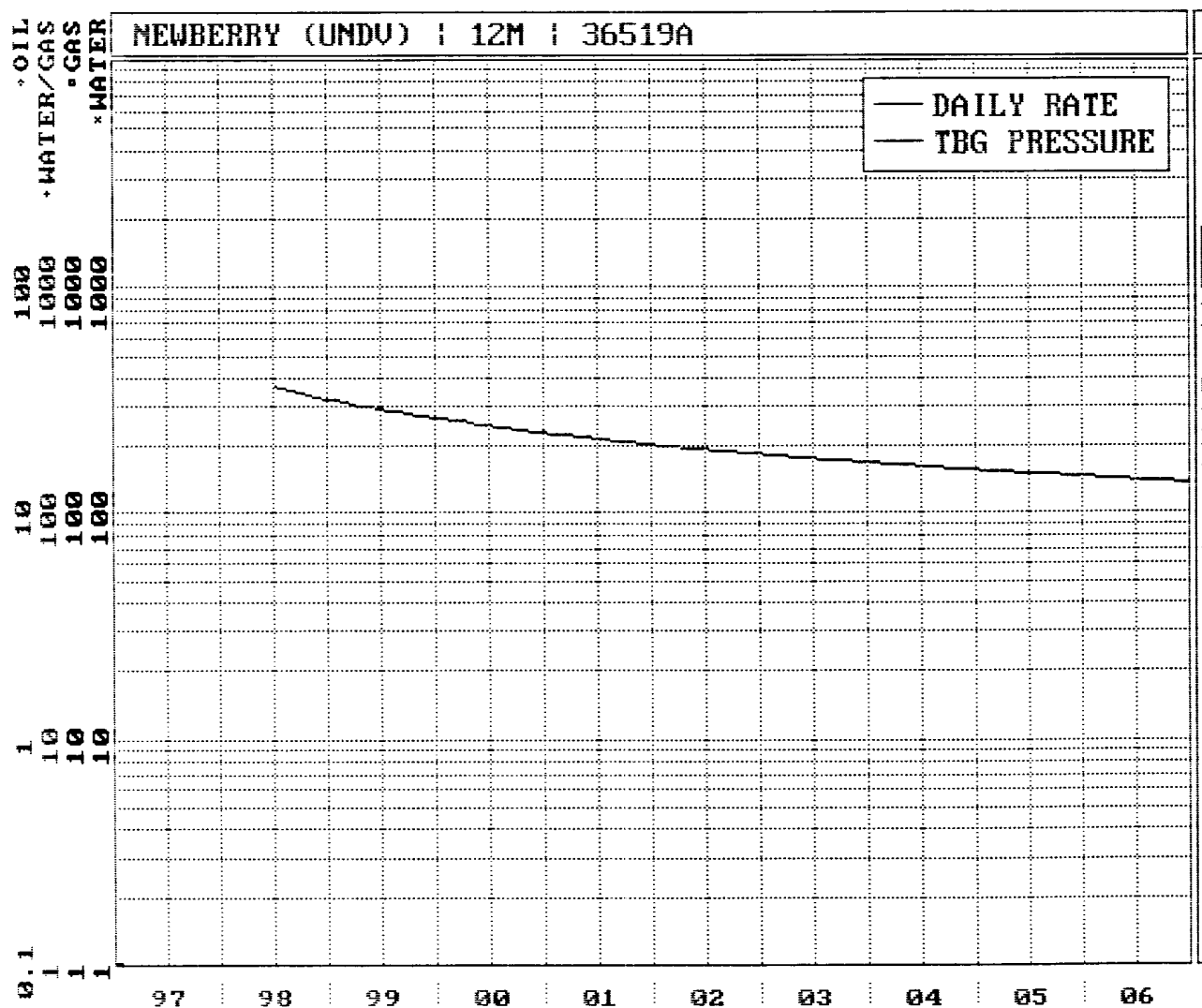
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres MV-S/320 DK-E/320.37	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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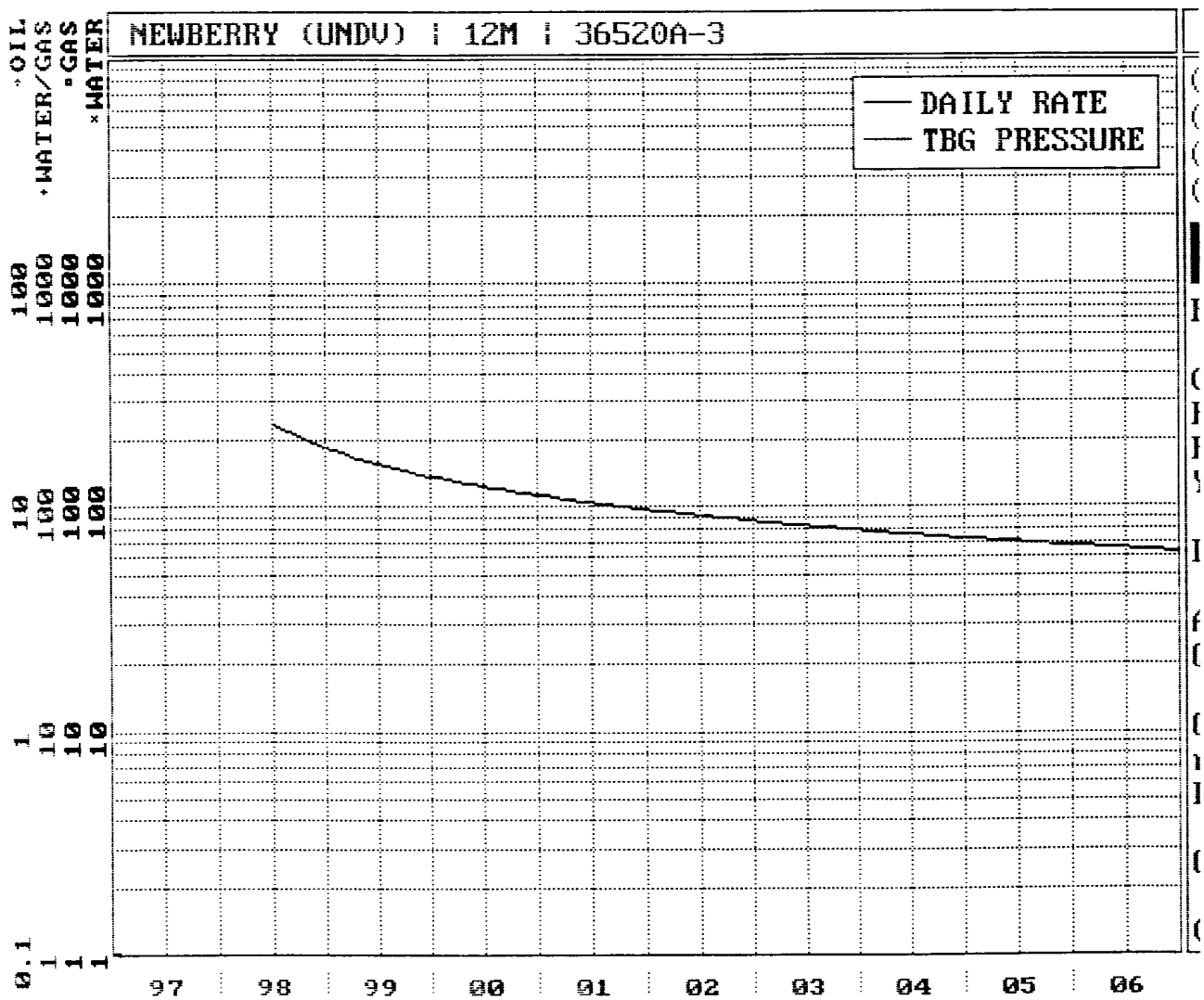
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 2640.66' 1269.84' 4 1302.84' 2605.68'	3 FEE FEE AMOCO	2 FEE FEE AMOCO	1 2646.60' 1345.74' 1326.60' SF-078120A SF-078120A 5288.58'	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 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. DECEMBER 10, 1997 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number
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Newberry #12M
Expected Production Curve
Blanco Mesaverde



Newberry #12M
Expected Production Curve
Basin Dakota



Newberry #12M
 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	0.722	GAS GRAVITY	0.702
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.4	%N2	0.35
%CO2	0.75	%CO2	2.22
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5037	DEPTH (FT)	7323
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)	482	SURFACE PRESSURE (PSIA)	710
BOTTOMHOLE PRESSURE (PSIA)	551.1	BOTTOMHOLE PRESSURE (PSIA)	852.7
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.722	GAS GRAVITY	0.702
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.4	%N2	0.35
%CO2	0.75	%CO2	2.22
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5037	DEPTH (FT)	7323
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)	1071	SURFACE PRESSURE (PSIA)	2058
BOTTOMHOLE PRESSURE (PSIA)	1244.4	BOTTOMHOLE PRESSURE (PSIA)	2530.8

Page No.: 3
 Print Time: Tue Jan 06 13:25:13 1998
 Property ID: 3336
 Property Name: NEWBERRY | 8 | 49826A-1
 Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP
 Psi . . .

Newberry #12M

 Mesaverde offset

04/26/57	1071.0	-original
05/09/57	1070.0	
09/24/57	819.0	
03/15/58	771.0	
03/22/59	738.0	
03/22/60	850.0	
03/21/61	688.0	
02/01/62	677.0	
01/11/63	721.0	
10/28/64	622.0	
07/19/65	643.0	
07/06/66	632.0	
06/23/67	607.0	
07/03/68	607.0	
10/10/69	568.0	
04/20/70	575.0	
05/25/71	540.0	
07/06/72	522.0	
07/25/73	504.0	
04/23/74	477.0	
04/28/76	506.0	
04/18/78	413.0	
05/01/80	446.0	
09/17/81	484.0	
05/17/82	475.0	
06/01/84	492.0	
09/09/86	485.0	
05/09/89	442.0	
05/20/91	468.0	
06/21/91	480.0	
10/04/93	482.0	-current

Page No.: 5
Print Time: Tue Jan 06 13:25:14 1998
Property ID: 1488
Property Name: RICHARDSON | 10 | 66591-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP
■■■■■■■■■■ ■■■Psi■■■

07/18/64	2058.0	- original
01/29/70	1119.0	
05/26/71	970.0	
02/26/72	903.0	
07/03/73	832.0	
04/18/75	741.0	
05/17/77	678.0	
05/02/79	737.0	
08/31/81	734.0	
06/08/83	940.0	
04/02/85	729.0	
04/19/88	712.0	
06/08/90	710.0	- current

Newberry #12M

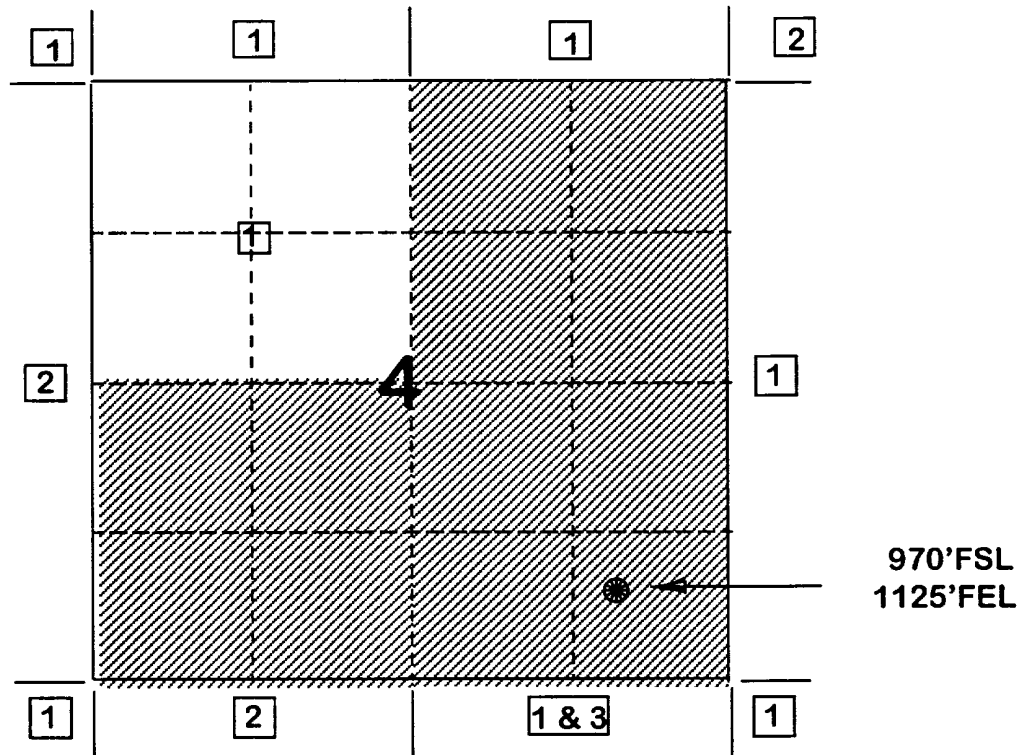
Dakota Offset

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Newberry #12M
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde (E/2) / Dakota (S/2) Formations Commingle Well

Township 31 North, Range 12 West



1) Burlington Resources
2) Amoco Production Company
c/o Bruce Zimney
P.O. Box 800
Denver, CO 80201

3) Conoco Inc.
10 Desta Drive, Suite 100W
Midland, Texas 79705-4500

01/29/98

J-I-B SCHEDULE

LWR270NL

INQUIRE

<WELLSTAT

WELL: 36519A NEWBERRY (UNDV) 12A

=====		
CO-OWNER	BILLING %	TOTAL %
-----	-----	-----
105086 AMOCO PRODUCTION COMPANY	5.351779	
999810 BURLINGTON RESOURCES OIL & GAS	19.833081	
999970 SOUTHLAND ROYALTY TRUST	74.815140	
		100.000000

MV

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PF12=MENU

PF24=HELP

01/29/98

J-I-B SCHEDULE

LWR270NI

INQUIRE

<WELLSTAT

WELL: 36520A NEWBERRY (UNDV) 12E

```
=====
      CO-OWNER                                BILLING %      TOTAL %
      -----                                -
105086 AMOCO PRODUCTION COMPANY              16.880719
239554 CONOCO INC                            6.242782
999810 BURLINGTON RESOURCES OIL & GAS        39.422930
999970 SOUTHLAND ROYALTY TRUST                37.453569
                                             100.000000
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DK

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PF11=PAGE BACK

PF12=MENU

PF24=HELP

*BURLINGTON
RESOURCES*

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

x

*BURLINGTON
RESOURCES*

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

*BURLINGTON
RESOURCES*

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Amoco Production Company
Outside Operated Joint Interest
PO Box 21868
Tulsa, OK 74121-1868

x

Conoco Inc.
c/o Donna Moore
10 Desta Drive, Suite 100W
Midland, TX 79705-4500

*BURLINGTON
RESOURCES*

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

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x