

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

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

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.

10 Desta Dr. Ste 100W, Midland, Tx 79705-4500

Bruington LS

#4R

Section 6, T-30-N, R-11-W, N

San Juan

Lease

Well No

Unit Ltr Sec Twp Rge

County

OGRID NO 005073 Property Code API NO

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)	4200-4800'		6600-6800'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Expected Flowing		Expected Flowing
5. Bottomhole Pressure	a. (Current)		a.
Oil Zones - Artificial Lift	528		848
Gas & Oil - Flowing			
All Gas Zones	b. (Original)		b.
Estimated Or Measured Original	1291		2206
6. Oil Gravity (°API) or Gas BT Content			
7. Producing or Shut-In?	To be completed		To be completed
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, date and oil/gas/water rates of recent test (within 60 days)	Date Rates To be provided upon completion	Date Rates To be provided upon completion	Date Rates To be provided upon completion
8. Fixed Percentage Allocation Formula - % for each zone	Oil % Gas %	Oil % Gas %	Oil % Gas %

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 others ☒ 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. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S):

16. ATTACHMENTS

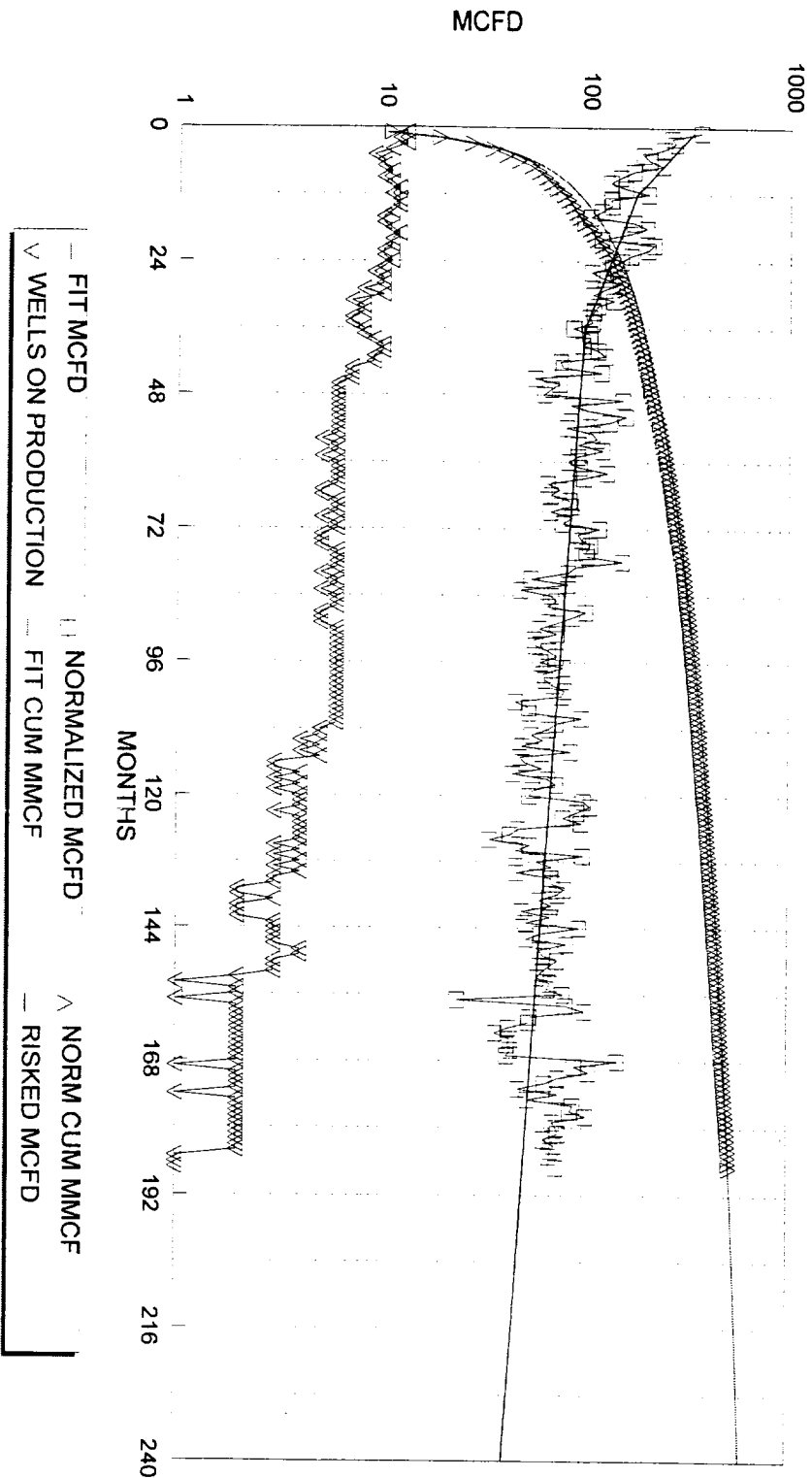
- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation 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 Kay Maddox TITLE Regulatory Agent DATE November 19, 1998

TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. (915) 686-5798

NORMALIZED MESAVERDE PRODUCTION
13 WELLS SINCE 1980; OFFSET TO SECTION 6-30N-11W



NORMALIZED AVG:

783 MMCF EUR
598 MMCF IN 20 YRS
15 MCFD E.L.
0.0045 bbl/mcf oil yield

RISKED AVG:

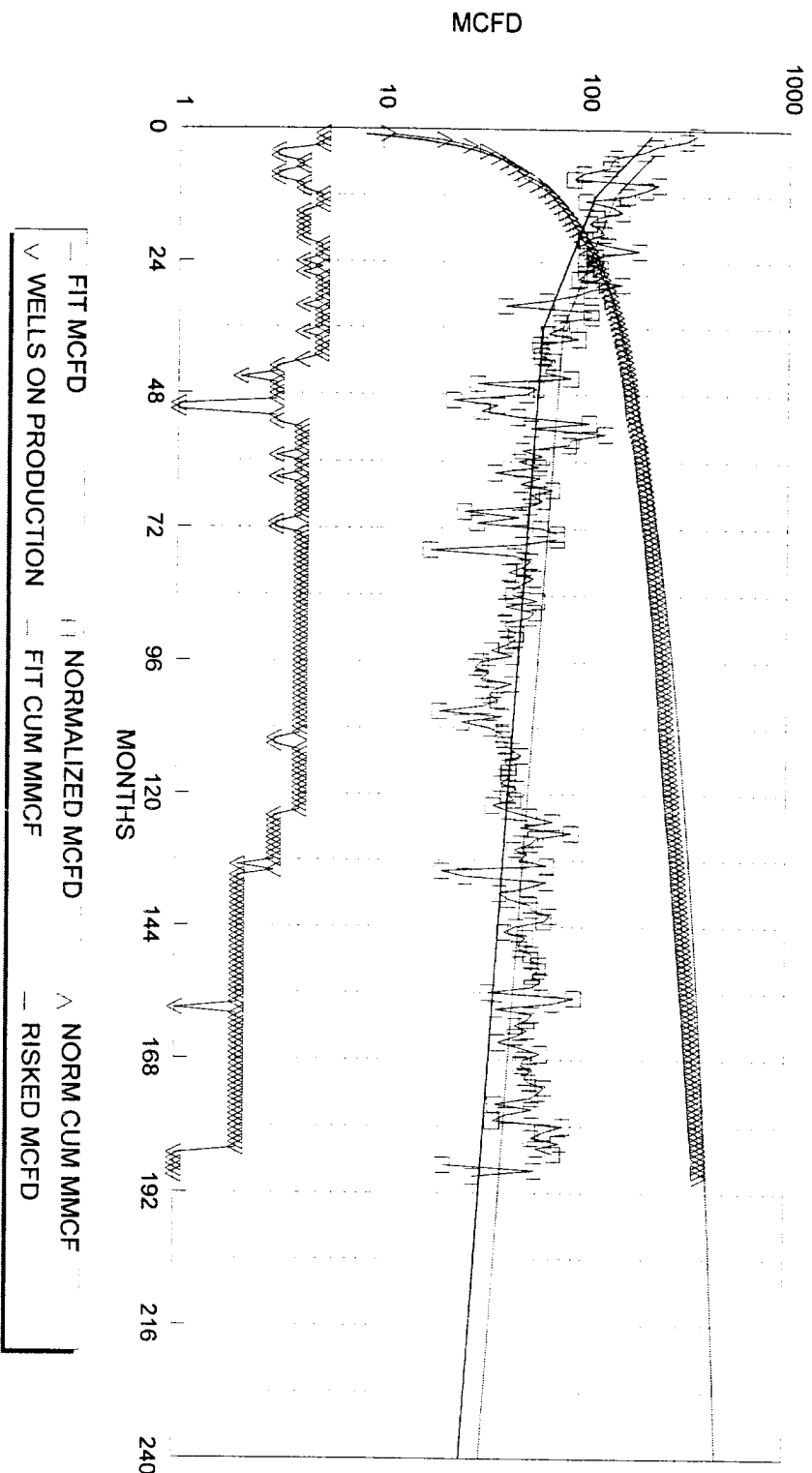
0% RISK

350 MCFD IP
50% DECLINE, 1ST 12 MONTHS
25% DECLINE, NEXT 24 MONTHS
5.0% FINAL DECLINE

783 MMCF EUR
598 MMCF IN 20 YRS
15 MCFD E.L.
0.0045 bbl/mcf oil yield

350 MCFD IP
50.0% DECLINE, 1ST 12 MONTHS
25.0% DECLINE, NEXT 24 MONTHS
5.0% FINAL DECLINE

NORMALIZED DAKOTA PRODUCTION
5 WELLS SINCE 1980; OFFSET TO SECTION 6-30N-11W



NORMALIZED AVG:

592 MMCF EUR
 470 MMCF IN 20 YRS
 15 MC/CD E.L.
 0.0144 bbl/mcf oil yield

RISKED AVG:

275 MC/CD IP
 50% DECLINE, 1ST 12 MONTHS
 25% DECLINE, NEXT 24 MONTHS
 5.0% FINAL DECLINE

20% RISK

453 MMCF EUR
 376 MMCF IN 20 YRS
 15 MC/CD E.L.
 0.0144 bbl/mcf oil yield

220 MC/CD IP
 50.0% DECLINE, 1ST 12 MONTHS
 25.0% DECLINE, NEXT 24 MONTHS
 5.0% FINAL DECLINE

Calculate BHP and Z-factor from surface shut-in pressure

DESCRIPTION:	Dakota Formation - current pressure based on 9 sec offsets		
WELL NAME :	Bruington LS #4 (06K-T30N-R11W)		
GAS GRAVITY:	0.69	% N2	0.65 %
CONDENSATE (YES=1):	1	% CO2	1.00 %
RESERVOIR TEMP:	200 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	668.66
DEPTH OF ZONE:	6,725 feet	Tc =	378.99

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
723	848	0.9817	864

Calculate BHP and Z-factor from surface shut-in pressure

DESCRIPTION:	Dakota Formation - original pressure based on measured ISIP		
WELL NAME :	Bruington LS #4 (06K-T30N-R11W)		
GAS GRAVITY:	0.69	% N2	0.65 %
CONDENSATE (YES=1):	1	% CO2	1.00 %
RESERVOIR TEMP:	200 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	668.66
DEPTH OF ZONE:	6,725 feet	Tc =	378.99

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
2,076	2,206	2.4086	916

Calculate BHP and Z-factor from surface shut-in pressure

DESCRIPTION:	Mesaverde Formation - original pressure based on 9 sec offsets		
WELL NAME :	Bruington LS #4 (06K-T30N-R11W)		
GAS GRAVITY:	0.70	% N2	0.40 %
CONDENSATE (YES=1):	1	% CO2	0.85 %
RESERVOIR TEMP:	150 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	667.68
DEPTH OF ZONE:	4,503 feet	Tc =	381.89

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
1,136	1,291	0.8652	1,492

Calculate BHP and Z-factor from surface shut-in pressure

DESCRIPTION:	Mesaverde Formation - current pressure based on 9 sec offsets		
WELL NAME :	Bruington LS #4 (06K-T30N-R11W)		
GAS GRAVITY:	0.70	% N2	0.40 %
CONDENSATE (YES=1):	1	% CO2	0.85 %
RESERVOIR TEMP:	150 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	667.68
DEPTH OF ZONE:	4,503 feet	Tc =	381.89

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
471	528	0.9387	562

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

District II
PO Drawer DD, 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-102

Revised February 21, 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		2 Pool Code 72319		3 Pool Name Blanco Mesaverde	
4 Property Code		5 Property Name Bruington LS			6 Well Number #4R
7 OGRID No. 005073		8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500			9 Elevation 5915'

10 Surface Location

UL or of no. N	Section 6	Township 30N	Range 11W	Lot Idn	Feet from the 790'	North/South line South	Feet from the 925'	East/West line West	County San Juan
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11 Bottom Hole Location If Different From Surface

UL or of no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 320	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			

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Kay Maddox
Printed Name
Regulatory Agent
Title
November 19, 1998
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.

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number

District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd. Aztec, NM 87410

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

Revised February 21, 1994
instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		2 Pool Code 71599	3 Pool Name Basin Dakota
4 Property Code	5 Property Name Bruington LS		6 Well Number #4R
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500		9 Elevation 5915'

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
N	6	30N	11W		790'	South	925'	West	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	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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

[illegible]

Conoco, Inc.
Bruington LS #4R
API # N/A
Section 6, T-30-N, R-11-W, N
San Juan County, NM

RE: Downhole Commingle Application C-107A

Notification of Offset Operators:

Burlington Resources
PO Box 4289
Farmington, NM 87499

Manana Gas Inc
2520 Tramway Terrace CRT NE
Albq., NM 87122

Robert L., Bayless
PO Box 168
Farmington, NM 87499

Horace F. McKay
PO Box 14738
ALBQ., NM 87191

Four Star Oil & Gas
3300 N. Butler Ave STE 100
Farmington, NM 87401

Taurus Exploration USA Inc. – Energy Resources
2101 6th Ave N
Birmingham, Al 35203-2784

Cross Timbers Oil Company
810 Houston St STE 2000
Fort Worth, TX 76102-6223

Amoco
PO Box 800
Denver, CO 80201

The above listed parties have been sent a copy of the C-107A application of subject well

Bruington LS #4R

<u>Name & Address</u>	<u>Interest</u>	<u>Mesaverde%</u>	<u>Dakota%</u>
Fred S. Reynolds & Assoc STE 2805 500 Throckmorton Fort Worth, TX 76102-3815	Royalty	.0058595	
Providence Oil & Gas STE A 3210 S. Norwood Ave Tulsa, OK 74135-5463	Royalty	.0019530	
William J Carey C/O Comercia Bank Texas STE 960 8111 LBJ FWY Dallas, TX 75251	Override	.0250000	
Raffkind Revocable Trust Daniel & Myra Raffkind Trustees 3800 Danbury Amarillo, TX 79109-4030	Royalty	.0078125	
Charlsie R. Reardon Lot 1113 5707 E. Hwy 80 Yuma, AZ 85365-1270	Override	.0025000	
Jane R. Turner Apt 101 1124 W. Poplar Rogers, AZ 72756-4256	Override	.0012500	
Henrietta E. Schultz Trustee Lincoln Plaza, STE 2160 500 N. Akard Dallas, TX 75201-3325	Override	.0500000	

Hanson-McBride Petro Co PO Box 1515 Roswell, NM 88202-1515	Override Override	.0112500	Gas Oil	.0225000 .0225000
Martha Elizabeth Duggan PO Box 1453 Granbury, TX 76048-8453	Override Override	.0012500	Gas Oil	.0025000 .0025000
Peter Claud Jacobsen 3850 Westcliff Rd S Ft. Worth, TX 76109-2727	Override Override	.0012500	Gas Oil	.0025000 .0025000
Paul Slayton PO Box 2035 Roswell, NM 88202-2035	Override Override	.0112500	Gas Oil	.0225000 .0225000
Mary Elizabeth Cauble Walker Executrix 1617 S. Columbia Dr West Columbia, TX 77486-3607	Override Override	.0012500	Gas Oil	.0025000 .0025000
Mineral Management Ser Onshore Federal # 17555 PO Box 5810 Denver, CO 80217-5810	Royalty Royalty	.0625000	Gas Oil	.1250000 .1250000
Welles Farms Partnership C/O Holly P. Wells 807 Chestnut St San Francisco, CA 94133-2245	Royalty	.0625000		
Conoco, Inc 10 Desta Dr Suite 100W Midland, TX 79705	Working Working	.4375000	Gas Oil	.8150000 .8150000

A copy of the C-107A Downhole Commingle Application has been sent by certified mail to the above listed parties on this the 24th day of March, 1998 – See attached evidence

Richard Gordon Pettigrew 734 Kingswood Richardson, TX 75080-3121	Override	.0025000		
John Davis Worley 1106 Chesterton Richardson, TX 75080-2919	Override	.0031250		
Robert Witten Trust 535 East 86 th St New York, NY 10028-7533	Royalty	.0104166		
Sam Mizel PO Box 703 Broken Arrow, OK 74013-0703	Royalty	.0078125		
Jill Worley Scherer PO Box 25029 Dallas, TX 75225-1029	Override	.0031250		
Barbara Witten Trust- Andrew - 535 East 86 th St New York, NY 10028-7533	Royalty	.0104167		
Judy G. Zweibak 8914 Farnam CT Omaha, NE 68114-4076	Royalty	.0078125		
Barbara Witten Trust Elizabeth – 535 east 86 th St New York, NY 10028-7533	Royalty	.0104167		
Conoco, Inc 10 Desta Dr Suite 100W Midland, TX 79705	Working	.3500000		
Glenn R. Little 1738 Elevado RD Vista, CA 92084-2803	Override Override	.0025000	Gas Oil	.0050000 .0050000
Mary Walker Life Est 1617 South Columbia West Columbia, TX 77486-3607	Override Override	.0012500	Gas Oil	.0025000 .0025000

Z 137 529 853

Postal Service
Receipt for Certified Mail

Robert Witten Trust
535 East 86th St
New York, NY 10028-7533

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 871

US Postal Service
Receipt for Certified Mail

Jill Worley Scherer
PO Box 25029
Dallas, TX 75225-1029

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 872

US Postal Service
Receipt for Certified Mail

John Davis Worley
1106 Chesterton
Richardson, TX 75080-2919

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 854

Postal Service
Receipt for Certified Mail

Barbara Witten Trust -Andrew
535 East 86th Street
New York, NY 10028-7533

Postage	\$
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Z 137 529 855

US Postal Service
Receipt for Certified Mail

Mary Walker Life Est.
1617 South Columbia
West Columbia, TX 77486-3607

Postage	\$
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Z 137 529 870

US Postal Service
Receipt for Certified Mail

Glenn R. Little
1738 Elevado RD
Vista, CA 92084-2803

Postage	\$
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Z 137 529 856

Postal Service
Receipt for Certified Mail

Peter Claud Jacobsen
3850 Westcliff Rd. S
Ft. Worth, TX 76109-2727

Postage	\$
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Z 137 529 869

US Postal Service
Receipt for Certified Mail

Martha Elizabeth Duggan
PO Box 1453
Granbury, TX 76048-8453

Postage	\$
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Z 137 529 857

US Postal Service
Receipt for Certified Mail

Mineral Management Ser
Onshore Federal # 17555
PO Box 5810
Denver, CO 80217-5810

Postage	\$
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Z 137 529 858

US Postal Service
Receipt for Certified Mail

Judy G. Zweibak
8915 Farnam Ct
Omaha, NE 68114-4076

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	

Z 137 529 851

US Postal Service
Receipt for Certified Mail

Fred S. Reynolds & Assoc.
STE 2805
500 Throckmorton
Fort Worth, TX 76102-3815

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom	

Z 137 529 852

US Postal Service
Receipt for Certified Mail

Henrietta E. Schultz Trustee
Lincoln Plaza, STE 2160
500 N. Akard
Dallas, TX 75201-3325

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom	

1995

Z 137 529 868

US Postal Service
Receipt for Certified Mail

Mary Elizabeth Cauble
Walker Executrix
1617 S. Columbia Dr.
West Columbia, TX 77486-3607

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 850

US Postal Service
Receipt for Certified Mail

No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Post to
Taurus - Energy Resources
Postage & Number
2101 6th Ave N.
Post Office, State, & ZIP Code
Birmingham, AL 35203-2784

Z 137 529 862

US Postal Service
Receipt for Certified Mail

Hanson - McBride Petro Co.
Po Box 1515
Roswell, NM 88202-1515

Postage	\$
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Z 137 529 860

US Postal Service
Receipt for Certified Mail

Welles Farms Partnership
C/O Holly P. Wells
807 Chestnut St
San Francisco, CA 94133-2245

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	

Z 137 529 867

US Postal Service
Receipt for Certified Mail

Providence Oil & Gas
STE A
3210 S. Norwood Ave.
Tulsa, OK 74135-3463

Z 137 529 866

US Postal Service
Receipt for Certified Mail

Barbara Wilton Trust - Elizabeth
535 East 86th St
New York, NY 10028-7533

Z 137 529 865

US Postal Service
Receipt for Certified Mail

Charlsie R. Reardon
Lot 1113
5707 E. Hwy 80

Z 137 529 861

US Postal Service
Receipt for Certified Mail

Paul Slayton
PO Box 2035
Roswell, NM 88202-2035

Z 137 529 859

US Postal Service
Receipt for Certified Mail

Raffkind Revocable Trust
Daniel & Myra Raffkind Trustees
3800 Danbury
Amarillo, TX 79104-4030

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom & Date Delivered	

April 1995

Z 137 529 873

US Postal Service
Receipt for Certified Mail

Jane R. Turner
Apt. 101
1124 W. Poplar
Rogers, AZ 72756-4256

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 863

US Postal Service
Receipt for Certified Mail

Sam Mizel
PO Box 703
Broken Arrow, OK 74013-0703

Z 137 529 864

US Postal Service
Receipt for Certified Mail

Richard Gordon Pettigrew
734 Kingswood
Richardson, TX 75080-2919

Postage	\$
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Z 137 529 874

US Postal Service
Receipt for Certified Mail

No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

William J. Carey
C/O Commercial Bank Texas
STE 960
8111 LBJ FWY
Dallas, TX 75251

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom & Date Delivered	

April 1995