

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 1893

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-8429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
New 3-12-98

APPROVAL PROCESS

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ 98 ☐ 99

RECEIVED
BLM

14 PM 1:34

Conoco Inc.

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

Primo

#1A

Section 6, T-31-N, R-10-W, D

San Juan

Lease

Well No

Unit Ltr Sec Two Rge

County

OGRID NO. 005073

Property Code

003232

API NO.

30-045-21827

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	Animas Chacra 70340		Blanco Mesaverde 72319
2 TOP and Bottom of Pay Section (Perforations)	3444-3990'		4208-5028'
3 Type of production (Oil or Gas)	Gas		Gas
4 Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5 Bottomhole Pressure	a (Current) 201		373
Oil Zones - Artificial Lift Gas & Oil - Flowing All Gas Zones Estimated Or Measured Original	b (Original) 846		1250
6 Oil Gravity (*API) or Gas BT Content	1077		1077
7 Producing or Shut-In?	Producing		Shut-in
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 8/96 53 MCFD/.03 BOPD .2 BWPD Subtraction Method See attached
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 10/15/98 308 MCFD/.3 BOPD 1.0 BWPD Subtraction Method, See attached	Date Rates	Date Rates
8 Fixed Percentage Allocation Formula - % for each zone	Gas	Gas	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. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S):

16. ATTACHMENTS

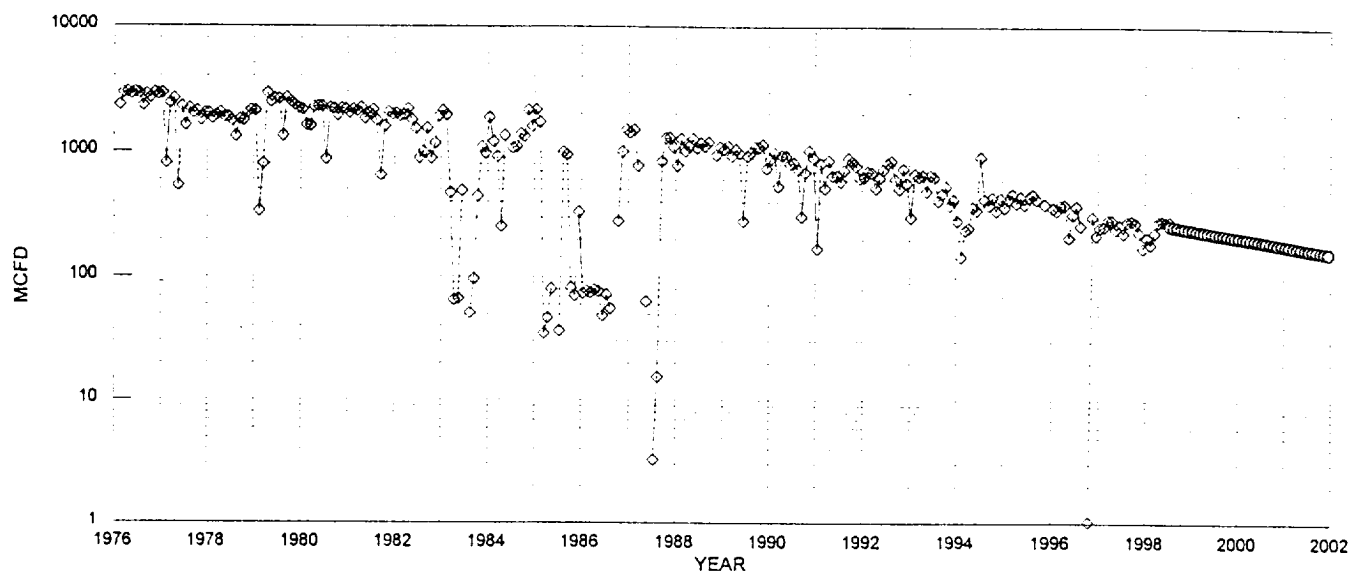
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation 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 Kay Maddox TITLE Regulatory Agent DATE December 10 1998

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

PRIMO #1A CHACRA PRODUCTION
SECTION 6D-31N-10W



◇ CHACRA MCFD — FIT MCFD

CHACRA HISTORICAL DATA	1ST PROD: 2/78	CHACRA PROJECTED DATA
OIL CUM:	2.1 MBO	1/1/99 Qi: 241 MCFD
GAS CUM:	8456.8 MMCF	DECLINE RATE: 13.75% (EXPONENTIAL)
OIL YIELD:	0.0002 BBL/MCF	OIL YIELD: 0.0004 BBL/MCF, LAST 3 YEARS

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

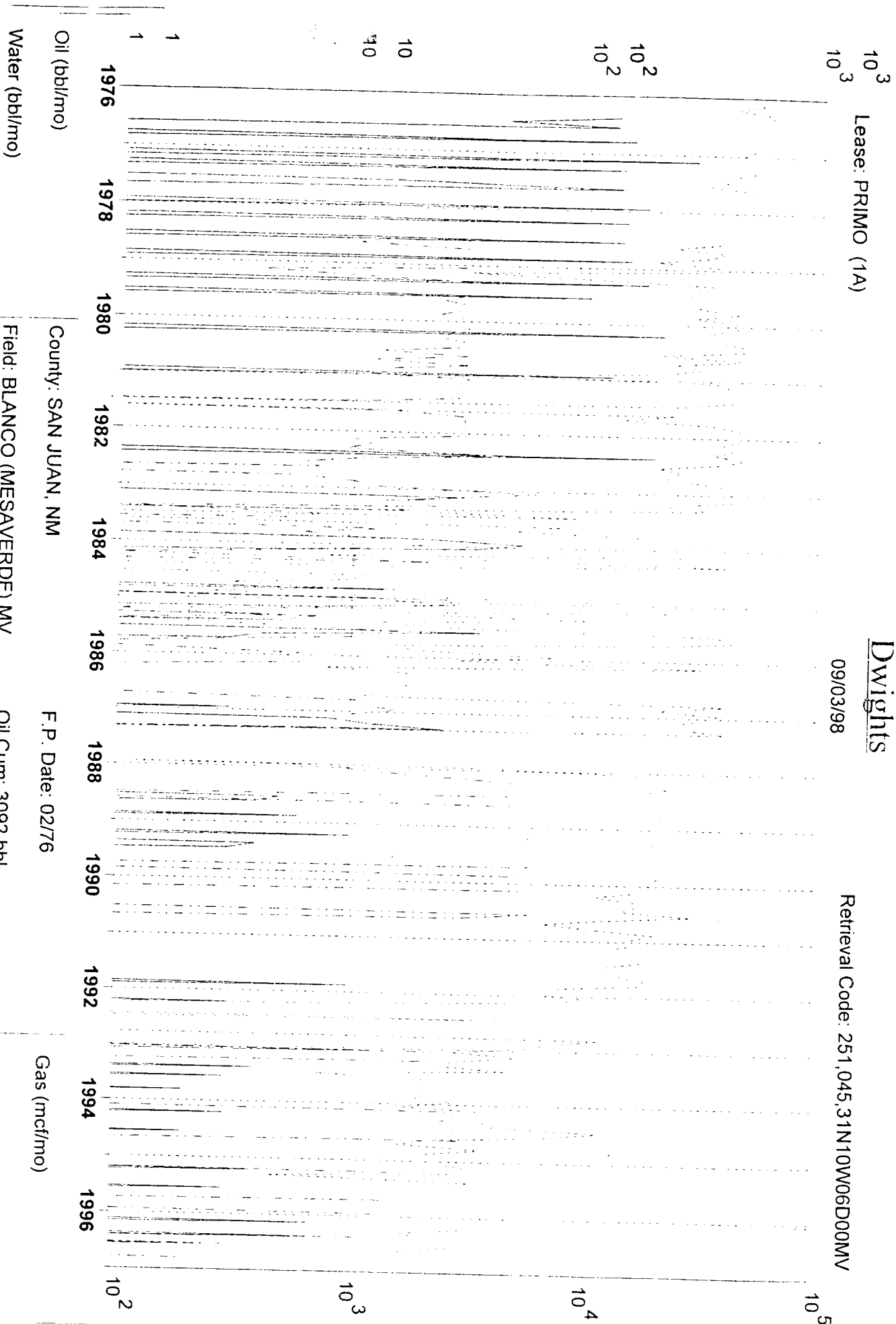
YEAR	MID-YEAR AVG MCFD	MID-YEAR AVG BOPD
1999	224	0.10
2000	193	0.08
2001	167	0.07
2002	144	0.06
2003	124	0.05
2004	107	0.05
2005	92	0.04
2006	80	0.03
2007	69	0.03
2008	59	0.03
2009	51	0.02
2010	44	0.02
2011	38	0.02
2012	33	0.01
2013	28	0.01
2014	24	0.01
2015	21	0.01
2016	18	0.01
2017	16	0.01
2018	13	0.01
2019	12	0.00
2020	10	0.00
2021	9	0.00
2022	7	0.00
2023	6	0.00
2024	6	0.00
2025	5	0.00
2026	4	0.00
2027	4	0.00
2028	3	0.00

Dwights

Lease: PRIMO (1A)

09/03/98

Retrieval Code: 251,045,31N10W06D00MV



County: SAN JUAN, NM

F.P. Date: 02/76

Field: BLANCO (MESAVERDE) MV

Oil Cum: 3092 bbl

Reservoir: MESAVERDE

Gas Cum: 5029 mmcf

Operator: CONOCO INC

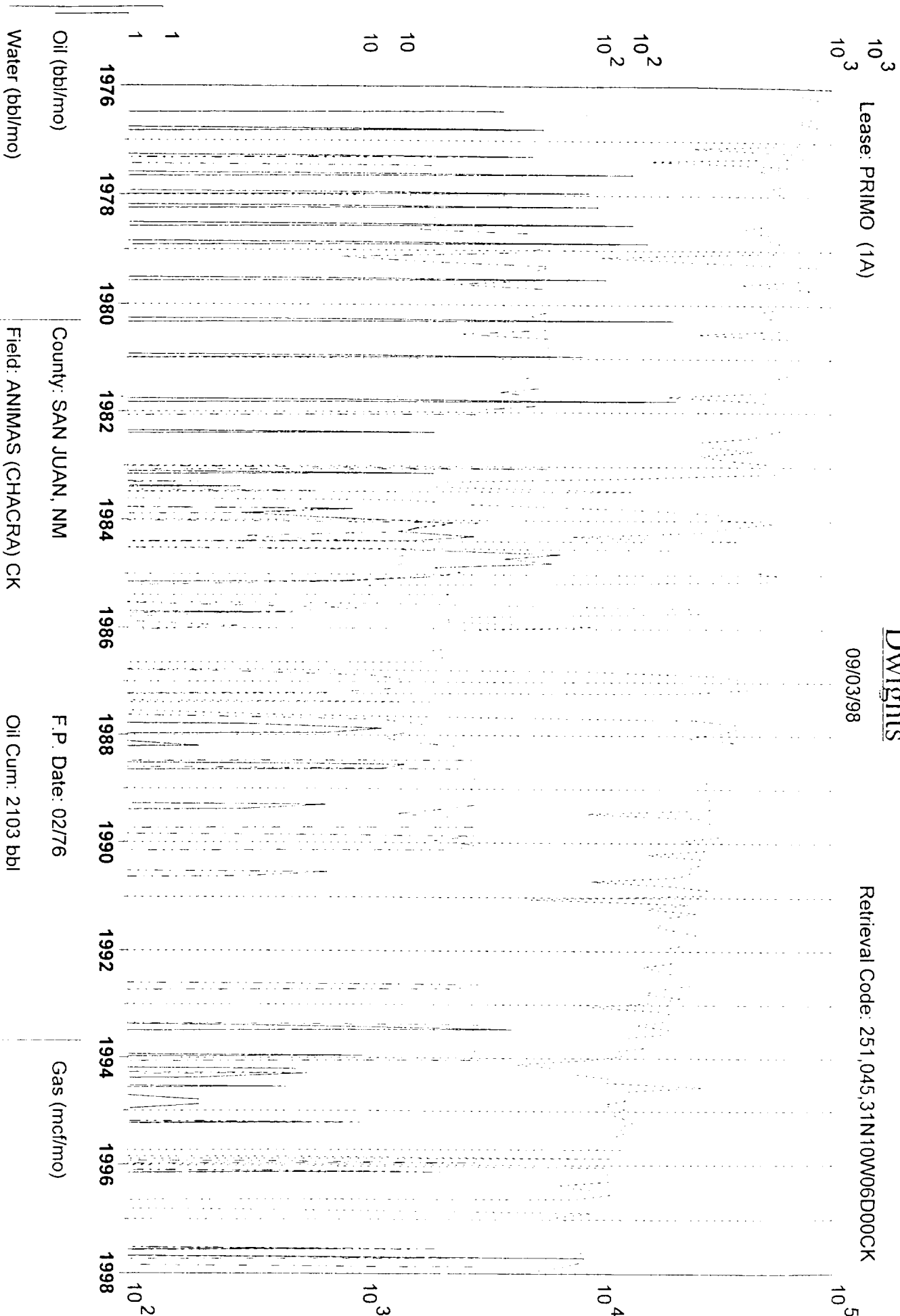
Location: 6D 31N 10W

Dwights

09/03/98

Retrieval Code: 251,045,31N10W06D00CK

Lease: PRIMO (1A)



Oil (bbl/mo)

Water (bbl/mo)

County: SAN JUAN, NM

Field: ANIMAS (CHACRA) CK

Reservoir: CHACRA

Operator: CONOCO INC

F.P. Date: 02/76

Oil Cum: 2103 bbl

Gas Cum: 8404 mmcf

Location: 6D 31N 10W

Gas (mcf/mo)

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

DESCRIPTION:	Chacra Formation - current pressure based on measured SIP		
WELL NAME :	Primo #1A (6D 31N 10W)		
GAS GRAVITY:	0.65	% N2	0.53 %
CONDENSATE (YES=1):	1	% CO2	0.31 %
RESERVOIR TEMP:	125 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	668.32
DEPTH OF ZONE:	3,717 feet	Tc =	370.04

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
185	201	0.9755	206

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

DESCRIPTION:	Chacra Formation - original pressure based on measured SIP		
WELL NAME :	Primo #1A (6D 31N 10W)		
GAS GRAVITY:	0.65	% N2	0.53 %
CONDENSATE (YES=1):	1	% CO2	0.31 %
RESERVOIR TEMP:	125 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	668.32
DEPTH OF ZONE:	3,717 feet	Tc =	370.04

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
771	846	0.9004	940

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

DESCRIPTION:	Mesaverde Formation - current pressure based on offsets		
WELL NAME :	Primo #1A (6D 31N 10W)		
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:	4,618 feet	Tc =	381.89

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
333	373	0.9566	390

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

DESCRIPTION:	Mesaverde Formation - original pressure based on offsets		
WELL NAME :	Primo #1A (6D 31N 10W)		
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:	4,618 feet	Tc =	381.89

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
1,097	1,250	0.8686	1,439

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-55

RECEIVED
RLM

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

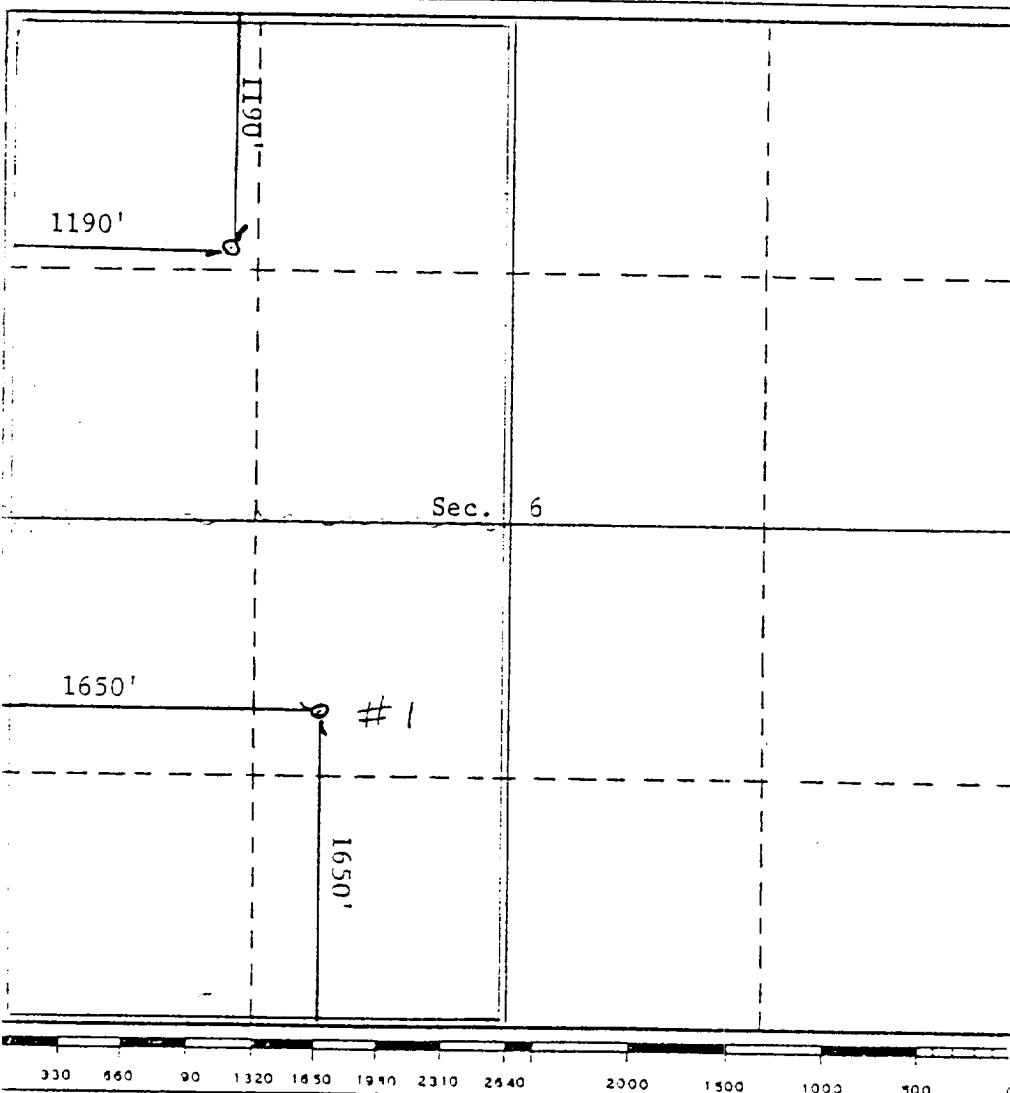
Operator Mesa Petroleum Co.			Lease Primo		Well No. 98 DEC 14 PM 1:34
Unit Letter D	Section 6	Township 31 North	Range 10 West	County San Juan	
Actual Footage Location of Well: 1190 feet from the North line and 1190 feet from the West line					
Ground Level Elev. 5943'	Producing Formation Chacra	Pool Blanco	Dedicated Acreage: 151.09		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.



CERTIFICATION

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

Signature

J. L. Farrell

Position

Operations Manager

Company

Mesa Petroleum Co.

Date

11/7/75

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

Registered Professional Engineer and/or Land Surveyor

Certificate No.

NEW MEXICO CONSERVATION COMMISSION
WELL LOCATION ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-103
Effective 1-1-65

RECEIVED
BLM

All distances must be within the boundaries of the Section.

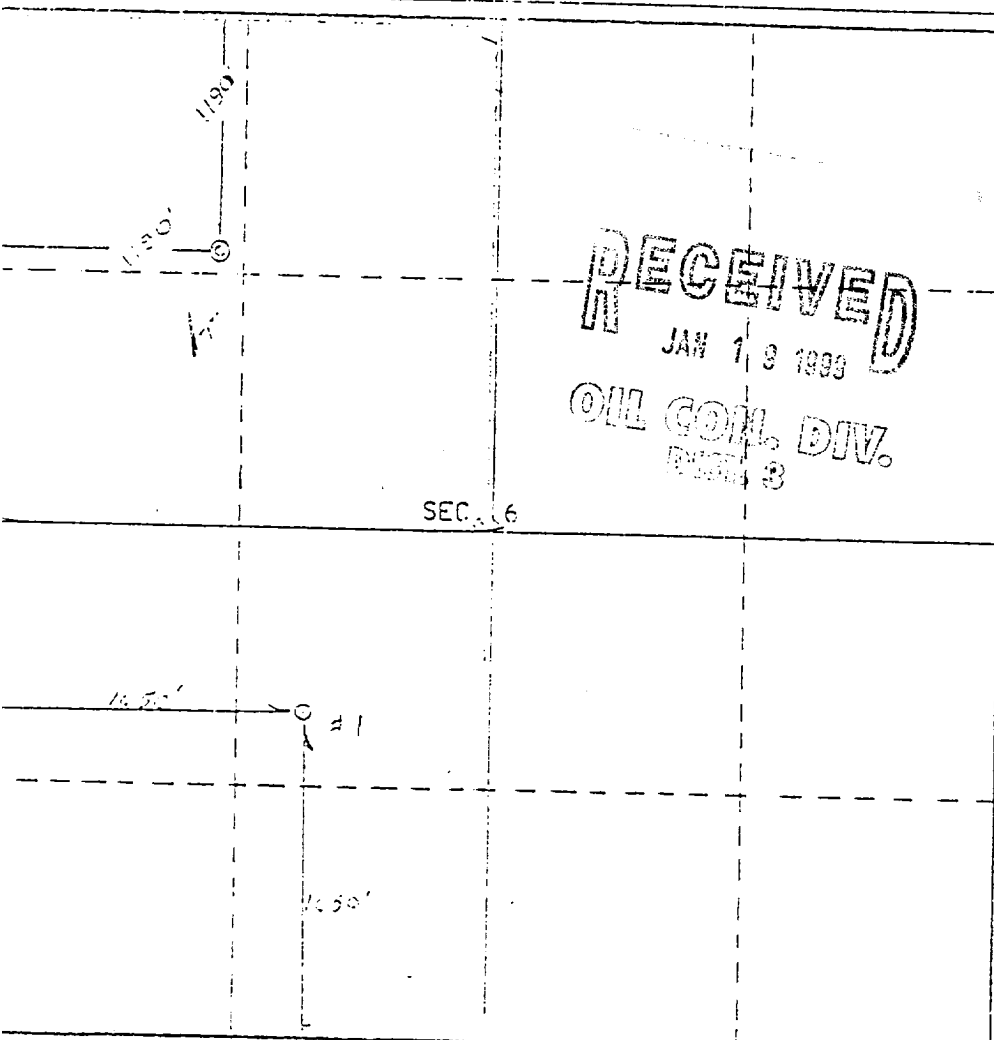
Mesa Petroleum Co.			Section		Range		County	
0			6		31 North		10 West	
1190			North		1190		West	
5943			Mesaverde		Blanco		Dedicated Acreage: 307.57	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	<i>R. J. Flaker</i>
Name	R. J. Flaker
Position	Prod. Engr.
Company	Mesa Petroleum Co.
Date	3/12/75
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 of Survey	January 15, 1975
By: <i>E. V. Echeverez</i> District Engineer	
3602 E.V. Echeverez LS	

Primo #1A
Section 6, T-31-N, R-10-W, D
API # 30-045-21827
San Juan County, NM

RE: Application to Downhole Commingle

Notification of Offset Operators:

Amoco
PO Box 800
Denver, CO 80201

Burlington Resources
PO Box 4289
Farmington, NM 87499

A copy of the C-107A Application has been sent to the above listed parties

Primo #1A
Section 6, T-31-N, R-10-W, D
API # 30-045-21827
San Juan County, NM

RE: Application to Downhole Commingle Mesaverde & Chacra (C107A)

Notification Of Working, Overriding & Royalty Interest Owners

The attached owners have been sent a certified copy of the C-107A application – see attached evidence.

Patricia Ledvina Himes
2201 E 27th St
Tulsa OK 74114-4241

Joe E. Guyer
12 Woodway Oaks Ln
Houston, TX 77056-1300

Julia Page
PO Box 610
Lawrence KS 66044-0610

Ellen Ledvina Garland
3718 E 48th Sssst
Tulsa, OK 74135-1929

Myra K. Cummins Estate
Louis M Cummins Personal Rep.
PO Box 1495
Durango, CO 81302-1495

Basil C Larcher
#6543
Avenida Wilfredo
La Jolla CA 92037-6256

Ruby Leeper
1083 Rd 2900
Aztec, NM 87410-9735

Taurus Expl USA Inc
2101 Sixth Ave N
Birmingham AL 35203-2749

WP Carr & Gladys Carr
STE 950
8333 Douglas
Dallas, TX 75255-5896

Reola Whitney
361 9th Street
Durango, CO 81301-5224

Amoco Production Co.
PO Box 800
Denver, CO 80201

Moore Loyal Trust
Lee Wayne & Joann
Montgomery Moore Trustees
403 Marienfeld
Midland, TX 79701-4397

George W Umbach
Apt 496
2620 S Maryland PKY
Las Vegas, NV 89109-1673

Robert Umbach
PO Box 5310
Farmington, NM 87499-5310

Minerals MGT Service
Onshore Federal #17555
PO Box 5810
Denver, CO 80217-5810

Z 137 529 832

Postal Service
Receipt for Certified MailMyra K. Cummins Estate
Louis M Cummins Personal Rep.
PO Box 1495
Durango, CO 81302-1495

Postage	\$
---------	----

Z 137 529 834

Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.Amoco Production Co.
PO Box 800
Denver, CO 80201

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

Z 137 529 837

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.Moore Loyal Trust
Lee Wayne & Joann
Montgomery Moore Trustees
403 Marienfeld
Midland, TX 79701-4207

Z 137 529 841

US Postal Service
Receipt for Certified MailJulia Page
PO Box 610
Lawrence KS 66044-0610

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$

Z 137 529 831

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.Joe E. Guyer
12 Woodway Oaks Ln
Houston, TX 77056-1300

Postage	\$
Certified Fee	

Z 137 529 835

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.Robert Umbach
PO Box 5310
Farmington, NM 87499-5310

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 838

US Postal Service
Receipt for Certified MailWP Carr & Gladys Carr
STE 950
8333 Douglas
Dallas, TX 75255-5896

Postage	\$
---------	----

Z 137 529 842

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	Amoco
Street & Number	PO Box 800
Post Office, State, & ZIP Code	Denver CO 80201
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

3800 April 1995

Z 137 529 833

US Postal Service
Receipt for Certified MailTaurus Expl USA Inc
2101 Sixth Ave N
Birmingham AL 35203-2749

Postage	\$
---------	----

Z 137 529 836

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)Minerals MGT Service
Onshore Federal #17555
PO Box 5810
Denver, CO 80217-5810

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	

Z 137 529 840

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)Basil C Larcher
#6543
Avenida Wilfredo
La Jolla CA 92037-6256

Postage	\$
---------	----

Z 137 529 839

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	Burling Resources
Street & Number	PO Box 4289
Post Office, State, & ZIP Code	Farmington NM 87499
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

3800 April 1995

Z 137 529 826

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided

Patricia Ledvina Himes
 2201 E 27th St
 Tulsa OK 74114-4241

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 827

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.

Ellen Ledvina Garland
 3718 E 48th Sssst
 Tulsa, OK 74135-1929

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 137 529 828

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.

Ruby Leeper
 1083 Rd 2900
 Aztec, NM 87410-9735

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Z 137 529 830

US Postal Service
Receipt for Certified Mail

George W Umbach
 Apt 496
 2620 S Maryland PKY
 Las Vegas, NV 89109-1673

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 829

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided

Reola Whitney
 361 9th Street
 Durango, CO 81301-5224

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

CONOCO INC.

3. Address and Telephone No.

10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424

4. Location of Well (Footage, Sec., T. R. M. or Survey Description)

Section 6, T-31-N, R-10-W, D
1190' FNL & 1190' FWL

5. Lease Designation and Serial No.

SF 078215B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Primo #1A

9. API Well No.

30-045-21827

10. Field Name, Locality, or Section

Animas Chacra, Blanco
Mesaverde

11. County or Parish, State

San Juan, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Downhole Commingle
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

It is proposed to Downhole Commingle the Chacra and Mesaverde in this well.

RECEIVED
JAN 19 1993
OIL CON. DIV.
FILE 6

ENTERED
AFMSS

DEC 21 1993

14. I hereby certify that the foregoing is true and correct

Signed Kay Maddox

Title Regulatory Agent

Date December 17, 1998

(This space for Federal or State office use)

Approved by _____ Title _____

Conditions of approval if any:

Date 1/14/99

BLM(6), NMOCD(1), SHEAR, PONCA, COST ASST, FILE ROOM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*See Instruction on Reverse Side

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-A
New 3-12-98

DISTRICT II
811 South First St. Artesia NM 88210-2835

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-8429

DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ Yes ☐ No

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BLM

14 PM 1:34

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

Primo

#1A

Section 6, T-31-N, R-10-W, D

San Juan

Lease

Well No

Unit Ltr Sec Twp Rge

County

OGRID NO 005073

Property Code

003232

API NO

30-045-21827

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	Animas Chacra 70340		Blanco Mesaverde 72319
2. TOP and Bottom of Pay Section (Perforations)	3444-3990'		4208-5028'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	a (Current): 201	a	a
Oil Zones - Artificial Lift Gas & Oil - Flowing All Gas Zones Estimated Current Measured Current Estimated Or Measured Original	b (Original): 846	b	b
6. Oil Gravity (*API) or Gas BT Content	1077		1077
7. Producing or Shut-in?	Producing		Shut-in
Production Marginal? (yes or no)	No		Yes
- If Shut-In give date 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: Rates: 10/15/98 308 MCFD/.3 BOPD 1.0 BWPD Subtraction Method, See attached	Date: Rates:	Date: Rates: 8/96 53 MCFD/.03 BOPD .2 BWPD Subtraction Method, See attached
- If Producing, date and oil/gas/water rates of recent test (within 60 days)			
8. Fixed Percentage Allocation Formula - % for each zone	Gas	Gas	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?

If not, have all working, overriding, and royalty interests been notified by certified mail?
Have all offset operators been given written notice of the proposed downhole commingling?

Yes ☒ No ☐
Yes ☒ No ☐
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

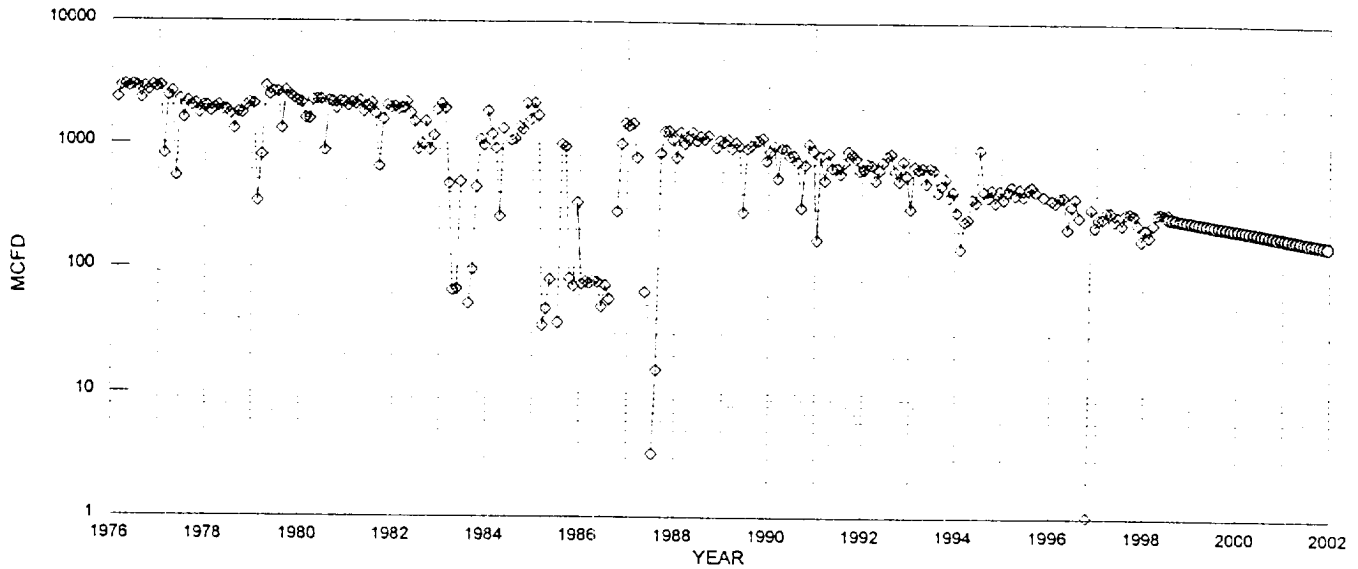
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation 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 December 10 1998

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

**PRIMO #1A CHACRA PRODUCTION
SECTION 6D-31N-10W**



→ CHACRA MCFD ○ FIT MCFD

CHACRA HISTORICAL DATA		CHACRA PROJECTED DATA	
OIL CUM:	2.1 MBO	1/1/99 Q1:	241 MCFD
GAS CUM:	8458.8 MMCF	DECLINE RATE:	13.75% (EXPONENTIAL)
OIL YIELD:	0.0002 BBL/MCF	OIL YIELD:	0.0004 BBL/MCF, LAST 3 YEARS

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

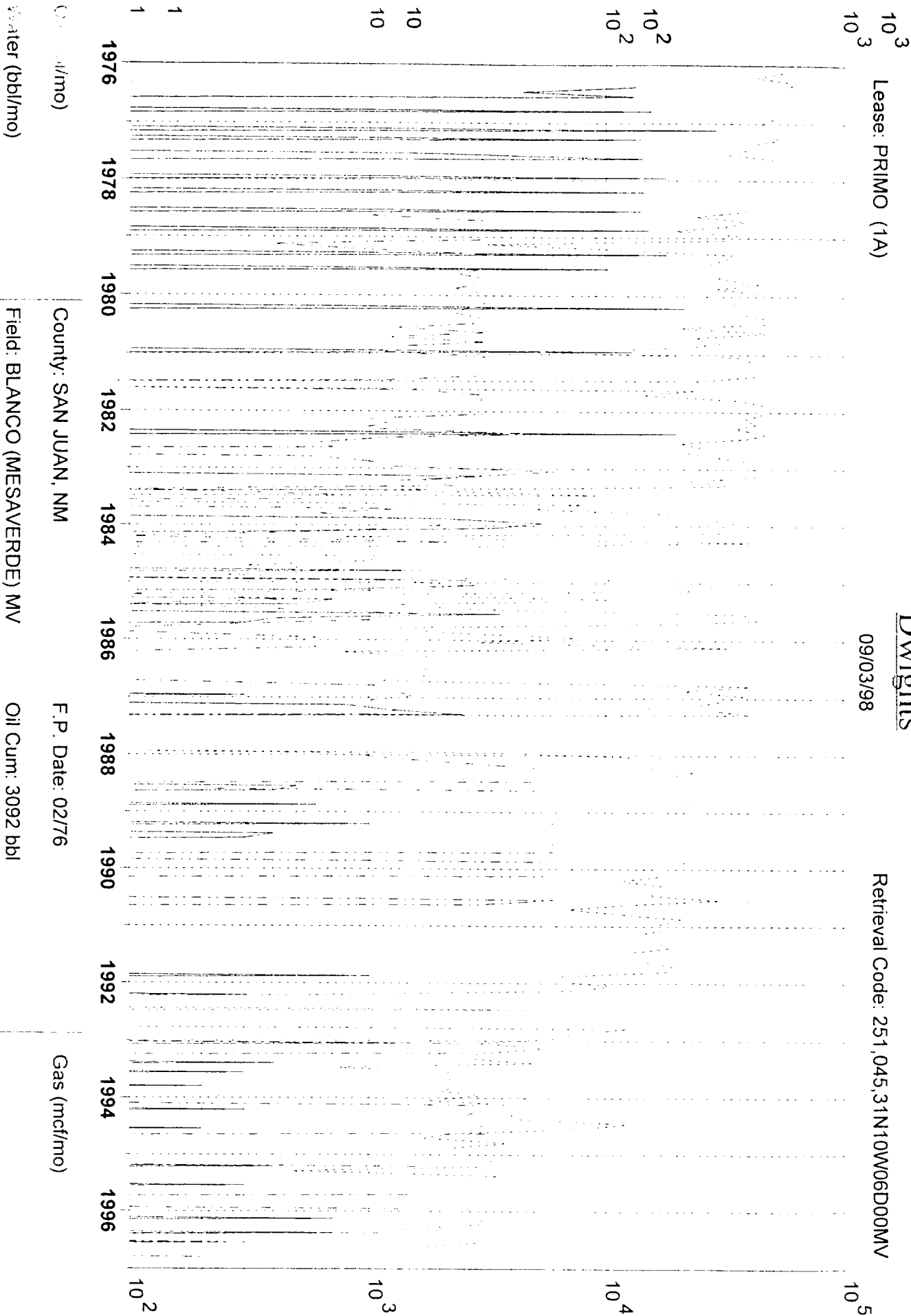
YEAR	MID-YEAR AVG MCFD	MID-YEAR AVG BOPD
1999	224	0.10
2000	193	0.08
2001	167	0.07
2002	144	0.06
2003	124	0.05
2004	107	0.05
2005	92	0.04
2006	80	0.03
2007	69	0.03
2008	59	0.03
2009	51	0.02
2010	44	0.02
2011	38	0.02
2012	33	0.01
2013	28	0.01
2014	24	0.01
2015	21	0.01
2016	18	0.01
2017	16	0.01
2018	13	0.01
2019	12	0.00
2020	10	0.00
2021	9	0.00
2022	7	0.00
2023	6	0.00
2024	6	0.00
2025	5	0.00
2026	4	0.00
2027	4	0.00
2028	3	0.00

Dwights

Lease: PRIMO (1A)

09/03/98

Retrieval Code: 251,045,31N10W06D00MV

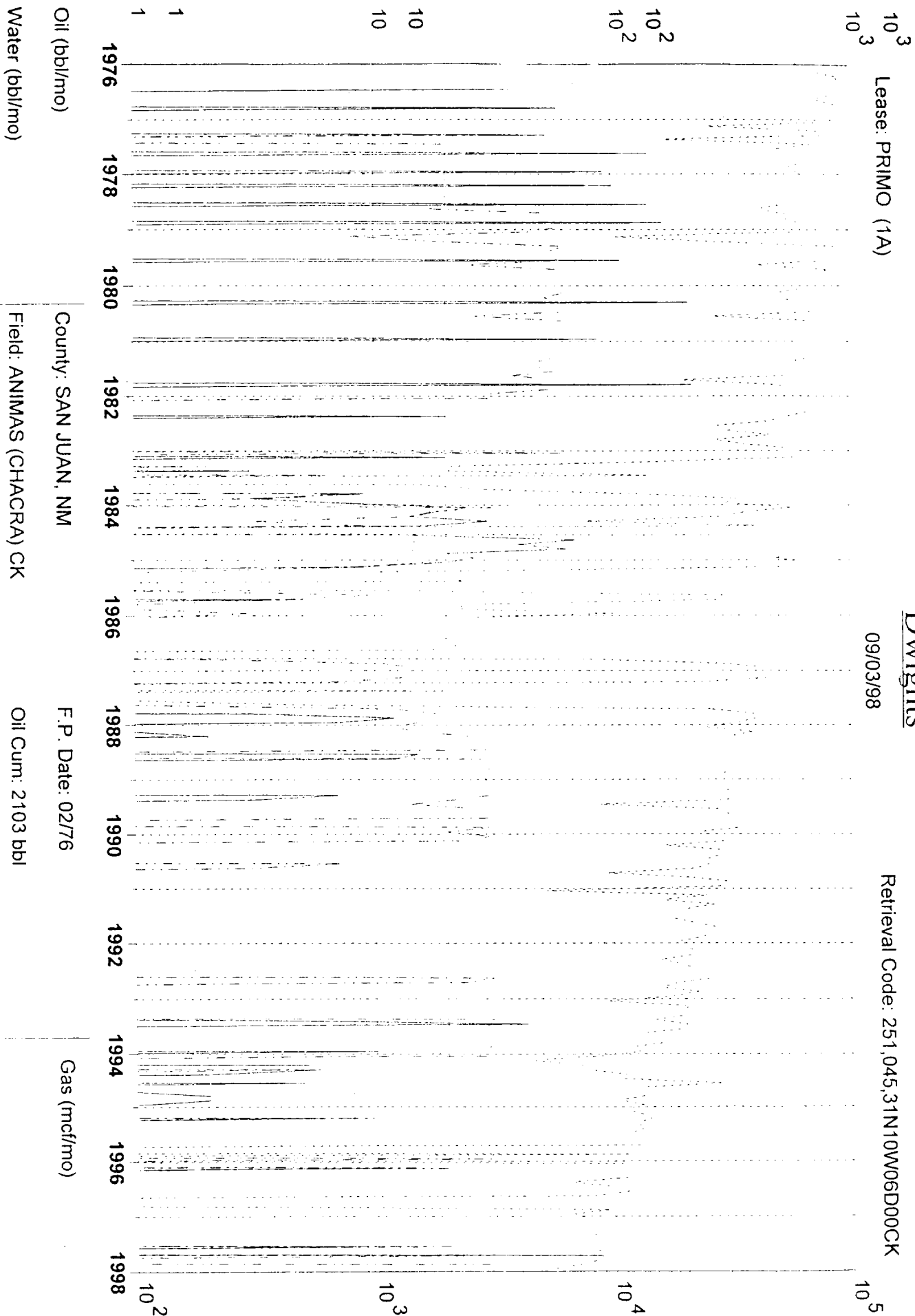


Dwights

Lease: PRIMO (1A)

09/03/98

Retrieval Code: 251,045,31N10W06D00CK



Oil (bbl/mo)

Water (bbl/mo)

County: SAN JUAN, NM

Field: ANIMAS (CHACRA) CK

Reservoir: CHACRA

Operator: CONOCO INC

F.P. Date: 02/76

Oil Cum: 2103 bbl

Gas Cum: 8404 mmcf

Location: 6D 31N 10W

Gas (mcf/mo)

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

DESCRIPTION:	Chacra Formation - current pressure based on measured SIP		
WELL NAME :	Primo #1A (6D 31N 10W)		
GAS GRAVITY:	0.65	% N2	0.53 %
CONDENSATE (YES=1):	1	% CO2	0.31 %
RESERVOIR TEMP:	125 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	668.32
DEPTH OF ZONE:	3,717 feet	Tc =	370.04

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
185	201	0.9755	206

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

DESCRIPTION:	Chacra Formation - original pressure based on measured SIP		
WELL NAME :	Primo #1A (6D 31N 10W)		
GAS GRAVITY:	0.65	% N2	0.53 %
CONDENSATE (YES=1):	1	% CO2	0.31 %
RESERVOIR TEMP:	125 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	668.32
DEPTH OF ZONE:	3,717 feet	Tc =	370.04

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
771	846	0.9004	940

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

DESCRIPTION:	Mesaverde Formation - current pressure based on offsets		
WELL NAME :	Primo #1A (6D 31N 10W)		
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:	4,618 feet	Tc =	381.89

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
333	373	0.9566	390

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

DESCRIPTION:	Mesaverde Formation - original pressure based on offsets		
WELL NAME :	Primo #1A (6D 31N 10W)		
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:	4,618 feet	Tc =	381.89

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
1,097	1,250	0.8686	1,439

NE MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

RECEIVED
RLM

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

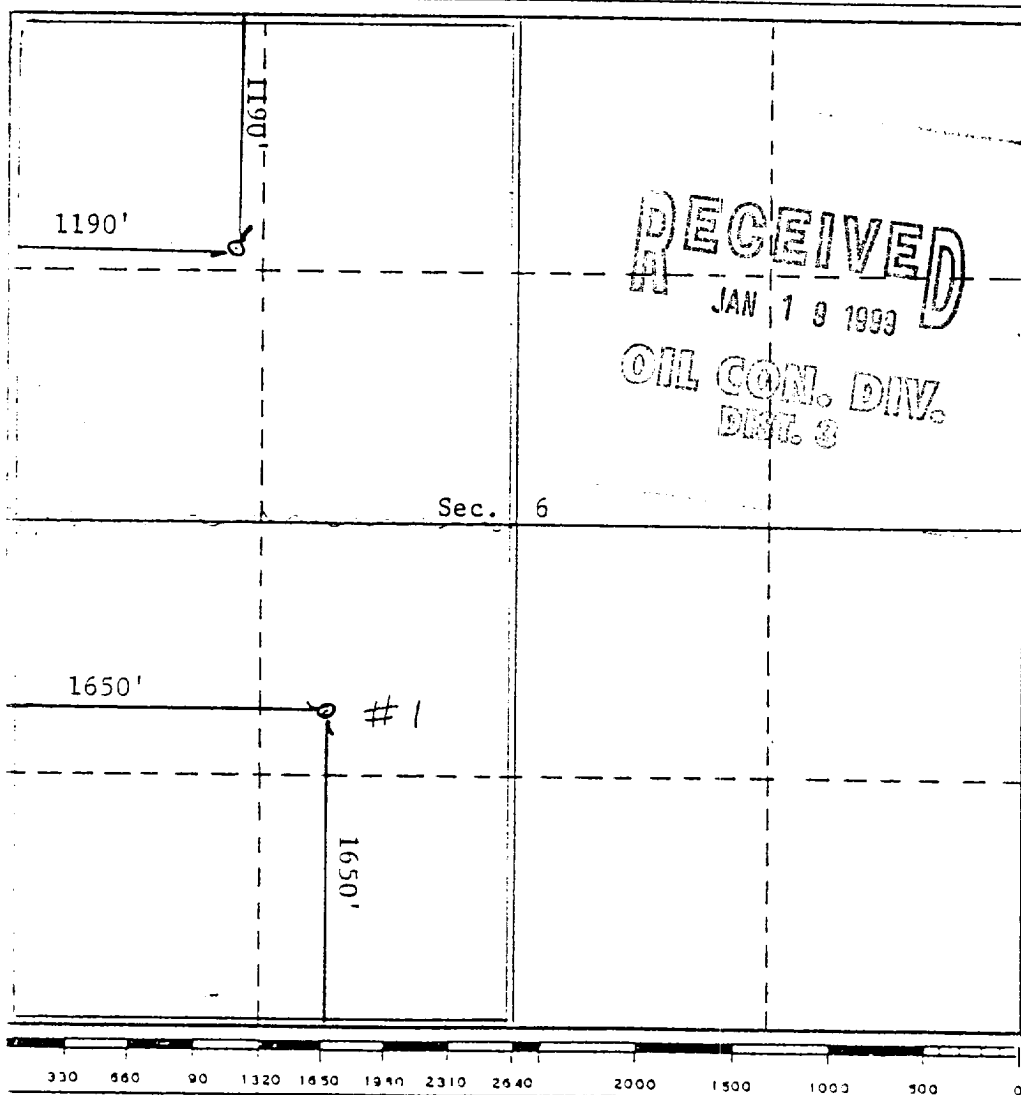
Operator Mesa Petroleum Co.		Lease Primo		Well No. 93 DEC 14 PM 1:34	
Unit Letter D	Section 6	Township 31 North	Range 10 West	County San Juan, NEW MEXICO, NM	
Actual Footage Location of Well: 1190 feet from the North line and 1190 feet from the West line					
Ground Level Elev. 5943'	Producing Formation Chacra	Pool -Blanco	Dedicated Acreage: 151.09 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.



CERTIFICATION

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

Name
J. L. Farrell

Position
Operations Manager

Company
Mesa Petroleum Co.

Date
11/7/75

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

Registered Professional Engineer
and/or Land Surveyor

Certificate No.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-108
Effective 1-1-80

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

RECEIVED
BLM

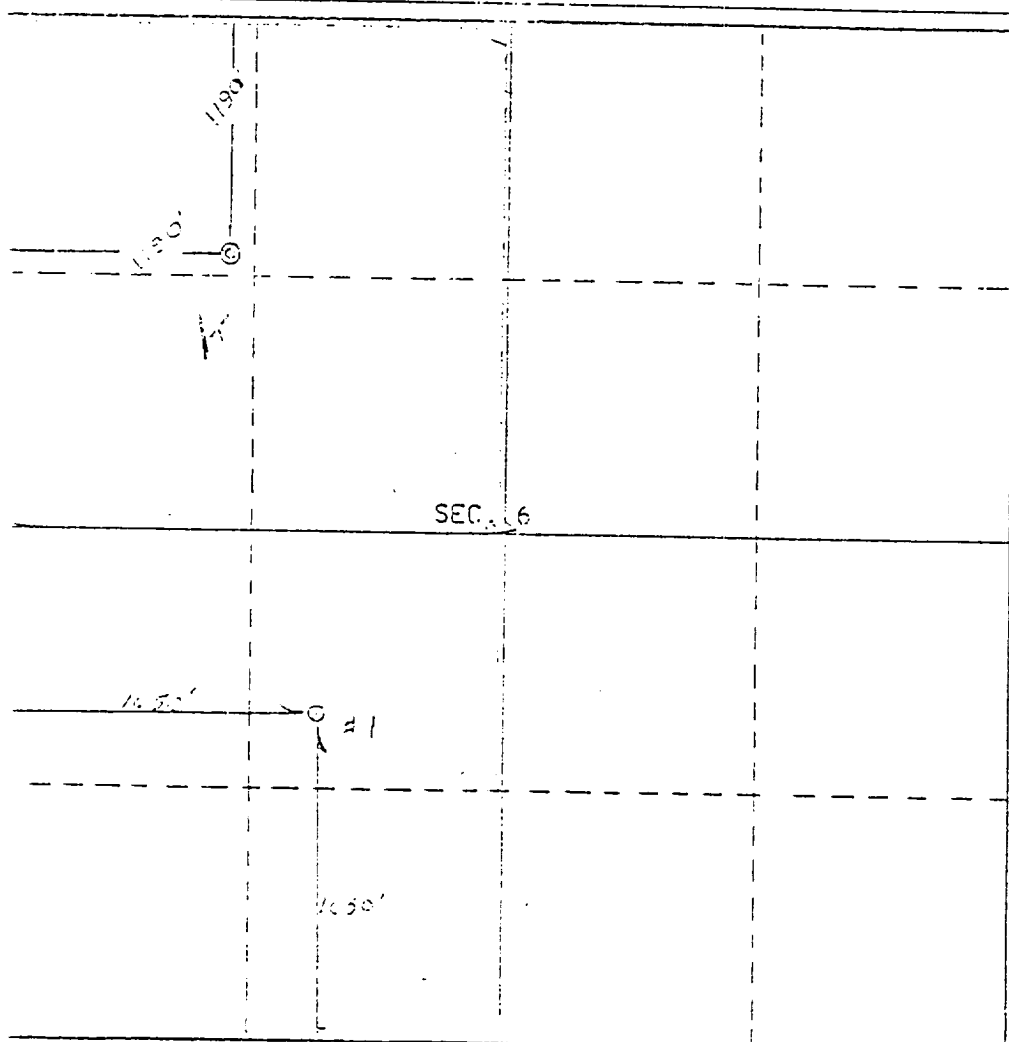
Mesa Petroleum Co.			Lease Primo Federal		98 DEC 14 PM 1:34	1 A
Section D	Section 6	Township 31 North	Range 10 West	County Sag	Sag, J. H. HARRINGTON, NM	
Section of the Location of Well: 1190		North		1190		West
Section of the Well: 5943	Mesaverde		Blanco		Dedicated Acreage: 30.57 30	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

R. J. Flaker

Position

Prod. Engr.

Company

Mesa Petroleum Co.

Date

3/12/75

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

January 15, 1975

By: [Signature] District Engineer and State Land Surveyor

Submitted By:

3002

E.V. Echnhawk LS

Primo #1A
Section 6, T-31-N, R-10-W, D
API # 30-045-21827
San Juan County, NM

RE: Application to Downhole Commingle

Notification of Offset Operators:

Amoco
PO Box 800
Denver, CO 80201

Burlington Resources
PO Box 4289
Farmington, NM 87499

A copy of the C-107A Application has been sent to the above listed parties

Primo #1A
Section 6, T-31-N, R-10-W, D
API # 30-045-21827
San Juan County, NM

RE: Application to Downhole Commingle Mesaverde & Chacra (C107A)

Notification Of Working, Overriding & Royalty Interest Owners

The attached owners have been sent a certified copy of the C-107A application – see attached evidence.

Patricia Ledvina Himes
2201 E 27th St
Tulsa OK 74114-4241

Joe E. Guyer
12 Woodway Oaks Ln
Houston, TX 77056-1300

Julia Page
PO Box 610
Lawrence KS 66044-0610

Ellen Ledvina Garland
3718 E 48th Sssst
Tulsa, OK 74135-1929

Myra K. Cummins Estate
Louis M Cummins Personal Rep.
PO Box 1495
Durango, CO 81302-1495

Basil C Larcher
#6543
Avenida Wilfredo
La Jolla CA 92037-6256

Ruby Leeper
1083 Rd 2900
Aztec, NM 87410-9735

Taurus Expl USA Inc
2101 Sixth Ave N
Birmingham AL 35203-2749

WP Carr & Gladys Carr
STE 950
8333 Douglas
Dallas, TX 75255-5896

Reola Whitney
361 9th Street
Durango, CO 81301-5224

Amoco Production Co.
PO Box 800
Denver, CO 80201

Moore Loyal Trust
Lee Wayne & Joann
Montgomery Moore Trustees
403 Marienfeld
Midland, TX 79701-4397

George W Umbach
Apt 496
2620 S Maryland PKY
Las Vegas, NV 89109-1673

Robert Umbach
PO Box 5310
Farmington, NM 87499-5310

Minerals MGT Service
Onshore Federal #17555
PO Box 5810
Denver, CO 80217-5810

Z 137 529 832

Postal Service
Receipt for Certified Mail

Myra K. Cummins Estate
 Louis M Cummins Personal Rep.
 PO Box 1495
 Durango, CO 81302-1495

Postage	\$
---------	----

Z 137 529 834

Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.

Amoco Production Co.
 PO Box 800
 Denver, CO 80201

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

Z 137 529 837

Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.

Moore Loyal Trust
 Lee Wayne & Joann
 Montgomery Moore Trustees
 403 Marienfeld
 Midland, TX 79701-4207

Z 137 529 841

Postal Service
Receipt for Certified Mail

Julia Page
 PO Box 610
 Lawrence KS 66044-0610

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$

Z 137 529 831

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.

Joe E. Guyer
 12 Woodway Oaks Ln
 Houston, TX 77056-1300

Postage	\$
Certified Fee	

Z 137 529 835

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.

Robert Umbach
 PO Box 5310
 Farmington, NM 87499-5310

Postage	\$
Certified Fee	
Special Delivery Fee	

Z 137 529 838

US Postal Service
Receipt for Certified Mail

WP Carr & Gladys Carr
 STE 950
 8333 Douglas
 Dallas, TX 75255-5896

Postage	\$
---------	----

Z 137 529 842

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Sent to	Amoco
Street & Number	PO Box 800
Post Office, State, & ZIP Code	Denver CO 80201
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

3800, April 1995

Z 137 529 833

US Postal Service
Receipt for Certified Mail

Taurus Expl USA Inc
 2101 Sixth Ave N
 Birmingham AL 35203-2749

Postage	\$
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Z 137 529 836

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Minerals MGT Service
 Onshore Federal #17555
 PO Box 5810
 Denver, CO 80217-5810

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	

Z 137 529 840

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Basil C Larcher
 #6543
 Avenida Wilfredo
 La Jolla CA 92037-6256

Postage	\$
---------	----

Z 137 529 839

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Sent to	Burling Resources
Street & Number	PO Box 4289
Post Office, State, & ZIP Code	Farmington NM 87499
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

3800, April 1995

