



Texaco Exploration and Production Inc

OIL CONSERVATION DIVISION
3300 N Butler
Farmington NM 87401

February 10, 1994

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
PO BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504

RECEIVED FEB 10 8 35

Attention: Michael E. Stogner
Chief Hearing Officer/Engineer

RE: **Application for exception to NMOCD Rule 303-A: Downhole Commingle
State of L. L. McConnell No. 14: 855' FNL & 790' FWL, Unit D,
Sec. 29-T25N-R3W, NMPM, Rio Arriba County, New Mexico**

Dear Mr. Stogner:

Texaco Exploration and Production Inc. respectfully requests administrative approval to downhole commingle the Blanco Mesa Verde Gas Pool and the West Lindrith Gallup-Dakota Oil Pool within the referenced well. This request is based on offset performance and the expected performance of the Mesa Verde in the subject well. Please accept the attached information in your consideration of this matter. All offset operators were notified of this request by certified mail and were sent a copy of the supporting information (copy of return receipt cards attached).

If you have any questions concerning this matter please contact Mr. Mark Reinhold at (505) 325-4397, ext 19. Your attention to this matter is greatly appreciated.

Sincerely,

Ted A. Tipton
Area Manager

MRR/s

Attachments
NMOCD-Aztec
file



Texaco Exploration and Production Inc

3300 N Butler
Farmington NM 87401

Dugan Production Corp.
P. O. Box 420
Farmington, NM 87499-0420

January 27, 1994

Re: Downhole Commingle
L. L. McConnell No. 14
Sec. 29-T25N-R3W Unit D NMPM
Rio Arriba County, New Mexico

Gentlemen:

As offset operator to the spacing unit for the referenced well, you are being furnished with a copy of our request for an exception to NMOCD Rule 303-A. Texaco proposes to downhole commingle the Blanco Mesa Verde and the West Lindrith Gallup-Dakota formations within this well. Offset wells located in sections 17, 18 and 19 of T25N-R3W produce from these formations under the August 9, 1977 Downhole Commingling Order No. R-5500. Texaco is requesting the referenced wells be included under the existing order.

If you have no objection to the above application please sign the waiver at the bottom of this letter and return it to this address. If no objection is received within 20 days of receipt of this letter, the Director may approve the proposed application. Your attention to this matter is greatly appreciated.

If you have any questions concerning this matter please contact Mr. Mark Reinhold at (505) 325-4397.

Sincerely,

Ted A. Tipton
AREA MANAGER
MRR

Attachments

cc: file
chronos

Waiver Approval:

COMPANY: Dugan Production Corp

BY: Mark Reinhold

DATE: 1-31-94

PS Form 3811, December 1991 * U.S.G.P.O. : 1992-307-530 DOMESTIC RETURN RECEIPT

SENDER:
• Complete items 1 and/or 2 for additional services.
• Complete items 3, and 4a & b.
• Print your name and address on the reverse of this form so that we can return this card to you.
• Attach this form to the front of the mailpiece, or on the back if space does not permit.
• Write "Return Receipt Requested" on the mailpiece below the article number.
• The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Elliott Oil Co.
Box 1355
Roswell NM 88202

4a. Article Number
P 081 443 765

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
FEB 7 1994

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
6. Signature (Agent)
ROSWELL, NM 88201

Thank you for using Return Receipt Service.

PS Form 3811, December 1991 * U.S.G.P.O. : 1992-307-530 DOMESTIC RETURN RECEIPT

SENDER:
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• Complete items 3, and 4a & b.
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• Write "Return Receipt Requested" on the mailpiece below the article number.
• The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Joseph B. Gould
430 South 3rd St.
Las Vegas Nevada 89101

4a. Article Number
P 337 999 188

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
1-31-94

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
6. Signature (Agent)

Thank you for using Return Receipt Service.

PS Form 3811, December 1991 * U.S.G.P.O. : 1992-307-530 DOMESTIC RETURN RECEIPT

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• Write "Return Receipt Requested" on the mailpiece below the article number.
• The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Meridian Oil Inc.
3535 E. 30th
Farmington NM 87402

4a. Article Number
P 337 999 190

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
1-31-94

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
6. Signature (Agent)
Rose Amato

Thank you for using Return Receipt Service.

PS Form 3811, December 1991 * U.S.G.P.O. : 1992-307-530 DOMESTIC RETURN RECEIPT

SENDER:
• Complete items 1 and/or 2 for additional services.
• Complete items 3, and 4a & b.
• Print your name and address on the reverse of this form so that we can return this card to you.
• Attach this form to the front of the mailpiece, or on the back if space does not permit.
• Write "Return Receipt Requested" on the mailpiece below the article number.
• The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:
Dugan Production Corp
P.O.Box 420
Farmington NM 87499

4a. Article Number
P 337 999 187

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
JAN 31 1994

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
6. Signature (Agent)
Strandlund

Thank you for using Return Receipt Service.

Application for Exception to Rule 303-SEGREGATION OF PRODUCTION FROM POOLS

- (1) **Name and address of the operator:** Texaco Exploration and Production Inc.
3300 N. Butler Suite 100
Farmington, NM 87401

- (2) **Lease name, well number, well location, name of the pools to be commingled.**

Lease Name: L. L. McConnell
Well Number: 14
Well Location: 855' FNL & 790' FWL, Unit D, Sec. 29
T25N-R3W, NMPM
Rio Arriba County, New Mexico
Pools to Commingle: Blanco Mesa Verde and West Lindrith Gallup - Dakota

- (3) **A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.**

Attached (Attachment I, II, III)

- (4) **A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.**

The C-115 for L. L. McConnell No. 14 Gallup Dakota production is attached (Attachment IV). No production data exists for the proposed Mesa Verde completion. However, attached (Attachment V) are C-115's showing production from the nearest Mesa Verde completions on an offset lease; Lydia Rentz No.'s 7 and 8. The Mesa Verde completion in the L. L. McConnell No. 14 is expected to perform in a similar manor.

- (5) **A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted.)**

L. L. McConnell No. 14 Gallup/Dakota decline curve attached (attachment VI).

Mesa Verde - New completion, no production history is available. Decline curves of offsets Lydia Rentz No. 8, C. W. Roberts No.s 3A and C. W. Roberts 6A are attached (Attachments VII, VIII and IX). The Mesa Verde completion in the L. L. McConnell No. 14 is expected to perform in a similar manor.

- (6) **Estimated bottomhole pressure for each artificially lifted zone. A current (within 30 days) measured bottomhole pressure for each zone capable of flowing.**

The Mesa Verde and Gallup/Dakota bottom hole pressure is estimated based on offset data.

Mesa Verde: 1460 psi (attachment XI)
Gallup/Dakota: 800 psi (attachment XII)

Actual Mesa Verde P_{BH} will be obtained using shut-in testing upon completion.

- (7) **A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.**

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale. The major components of the produced waters are sodium, chlorides and bicarbonates. Several offsets are commingled in the proposed zones and no production problems have occurred.

Application for Exception to Rule 303-SEGREGATION OF PRODUCTION FROM POOLS Requirements Cont'd.

- (8) **A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.**

<u>Gallup/Dakota Production</u>		<u>Anticipated Mesa Verde Production</u>	
Oil, BOPD	45	Oil, BOPD	0
Gas, MCFD	52	Gas, MCFD	600
Water, BWPD	0	Water, BWPD	1

The combined production from the Gallup/Dakota and Mesa Verde Formations will be approximately 652 MCFD, 45 BOPD and 1 BWPD.

The mechanics of the well-bore are not conducive to a "dual" completion. The 5-1/2" casing that the Gallup/Dakota be pumped under a packer and the Mesa Verde flow up the casing-tubing annulus. Pumping the Gallup/Dakota under a packer would be inefficient due to gas locking. Flowing the Mesa Verde up the annulus would be inefficient due to wellbore loading and the inability to swab.

- (9) **A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.**

Monthly production from the West Lindrith Gallup - Dakota Oil Pool is proposed to be calculated using the following formula:

$$Q_2 = Q_1(1-D)^n \text{ MCFD}$$

where Q_2 = future production rate MCFD

Q_1 = current production rate MCFD

D = effective decline rate in percent per year (from decline curve)

n = years in the future to Q_2 from Q_1


Oil and water production will be calculated using the existing GLR and GOR of the Gallup/Dakota. Any oil, gas and water production above what is calculated by the above shall be attributed to the Blanco Mesa Verde Pool.

- (10) **A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.**

All offset operators and the BLM have been notified. Please find attached, signed return receipt cards from each operator.

OFFSET OPERATORS
L.L. McCONNELL # 14
SEC. 29 T25N / R03W

R 03 W

TEXACO 19	TEXACO 20	ELLIOT OIL CO, INC 21 MERIDIAN OIL, INC
TEXACO 30	 L.L. McCONNELL #14 TEXACO 29	DUGAN PROD. CO 28 ELLIOT OIL CO, INC MERIDIAN OIL, INC
TEXACO 31	GOULD, JOS. B. ASSOC. 32	DUGAN PROD. CO MERIDIAN OIL, INC 33 DUGAN PROD. CO

**OFFSET OPERATORS
L. L. McConnell No. 14
T25N / R30W**

Dugan Production Co.
P. O. Box 420
Farmington, NM 87499-0420
(505) 325-1821

Elliot Oil Co.
Box 1355
Roswell, NM 88202
(505) 622-5840

Joseph B. Gould
430 South 3rd St.
Las Vegas, Nevada 89101

Meridian Oil, Inc.
3535 E. 30th
Farmington, NM 87402
(505) 326-9700

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Attachment I

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Texaco Exploration & Production Inc.			Lease L.L. McCONNELL		Well No. 14
Unit Letter D	Section 29	Township 25N	Range 3W	County NMPM Rio Arriba	
Actual Footage Location of Well: 855' feet from the North line and 790' feet from the West line					
Ground level Elev. 7388'	Producing Formation Mesa Verde		Pool Blanco Mesa Verde	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

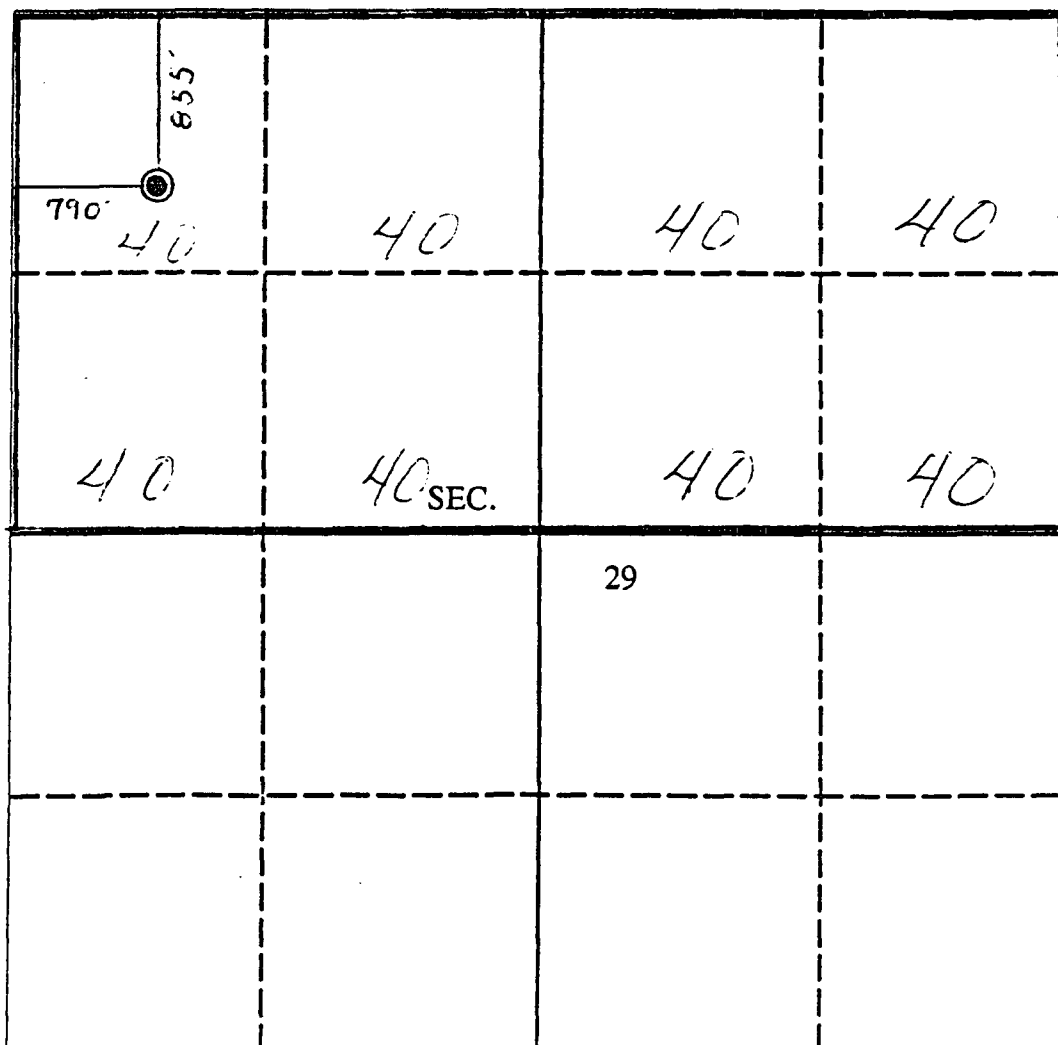
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

Printed Name

Ted A. Tipton

Position

Area Manager

Company

Texaco E & P Inc.

Date

1-17-93

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 knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. BOX 2088
Santa Fe, New Mexico 87504-2088

Attachment II

Company **TEXACO EXPLORATION & PRODUCTION INC.** Address **3300 NORTH BUTLER FARMINGTON, NM 87401** Zip **87401**
For Month, **10 1993** Page **7** of **125**
or Operator

POOL NAME (Underline) Lease Name WELL NO. UNIT SEC. TWP. RNG.	WELL STATUS	INJECTION		PRODUCTION			DAYS PROD	DISPOSITION OF GAS			DISPOSITION OF OIL							
		VOLUME	PRESS.	BARRELS OIL/COND. PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCT)		SOLD	TRANS POR-TER	OTHER	CODE	OIL DN HAND AT BEG. OF MONTH	BBL. TO TRANS-PORTER	TRANS POR-TER	OTHER	CODE	OIL DN HAND AT END OF MONTH	
LINDRITH GALLUP-DAKOTA WEST																		
MCCONNELL, L. L.																		
30-038-05776 1 N 30 25N 3W	P	0	0	328	31	1497 31												
30-038-23008 13 N 31 25N 3W	P	0	0	225	6	1481 31												
30-038-25249 14 D 28 25N 3W	P	0	0	1401	0	1819 31												
		0		1854	37	4577		4489	EPG	78	U	817	1947	MOI	0		824	

DISTRIBUTION

Original OGD Santa Fe
One Copy OGD Dist. Office
in which lease is located
One Copy to Transporter (s)

DATE DUE
to be postmarked by 24th day
of next succeeding month

STATUS CODE

F FLOWING
P PUMPING
G GAS LIFT
S SHUT IN
T TEMP. ABANDONED
I INJECTION
D DISCONTINUED

"OTHER" GAS DISPOSITION CODE

X USED OFF LEASE
D USED FOR DRILLING
G GAS LIFT
L LOST (MCT ESTIMATED)
E EXPLANATION ATTACHED
R REPRESSURING OR
PRESSURE MAINTENANCE
V VENTED
U USED ON LEASE

"OTHER" OIL DISPOSITION CODE

C CIRCULATING OIL
L LOST
S SEGMENTATION (GS & W)
E EXPLANATION ATTACHED
T THEFT

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS
TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

T. A. TIPTON

(TYPED NAME) **505-325-4397**
(PHONE NUMBER)

AREA MANAGER

(POSITION)

(SIGNATURE) **11-22-93**
(DATE)

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. BOX 2088
Santa Fe, New Mexico 87504-2088

OPERATORS MONTHLY REPORT
Form C-115 - Revised 1/1/93
See Distribution and Code
Information Bottom of Page

Handwritten: 11-22-83

Company TEXACO EXPLORATION & PRODUCTION INC. Address 3300 NORTH BUTLER FARMINGTON, NM 87401 Zip 87401
or Operator TEXACO EXPLORATION & PRODUCTION INC. For Month 10 Year 1983 Page 10 of 125

POOL NAME (Underline) Lease Name WELL NO. UNIT SEC. TWP. RNG.	WELL STATUS	INJECTION		PRODUCTION			DISPOSITION OF GAS	DISPOSITION OF OIL										
		VOLUME	PRESS.	BARRELS OIL/COND. PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)		SOLD	TRANS- POR- TER	OTHER	COO	OIL ON HAND AT BEG. OF MONTH	BRLS. TO TRANS- PORTER	TRANS- POR- TER	OTHER	COO	OIL ON HAND AT END OF MONTH	
LINDRITH GALLUP-DAKOTA WEST																		
ROBERTS, C. W.																		
30-039-22732 3A	L 18 25N 3W	P	0	0	46	124	398	31										
30-039-21285 5	F 17 25N 3W	P	0	0	41	0	722	31										
30-039-22731 6	G 18 25N 3W	P	0	0	56	53	1254	31										
30-039-22784 6A	E 18 25N 3W	P	0	0	45	31	384	31										
			0		188	208	2758		2660	EPG	98	U	238	202	MOI	0	224	

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One Copy OCD Dist. Office
in which lease is located
One Copy to Transporter (s)

DATE DUE
To be postmarked by 24th day
of next succeeding month

STATUS CODE

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P PUMPING
G GAS LIFT
S SHUT IN
T TEMP. ABANDONED
I INJECTION
D DISCONTINUED

"OTHER" GAS DISPOSITION CODE

X USED OFF LEASE
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G GAS LIFT
L LOST (MCF ESTIMATED)
E EXPLANATION ATTACHED
R REPRESSURING OR
V VENTED
U USED ON LEASE

"OTHER" OIL DISPOSITION CODE

C CIRCULATING OIL
L LOST
S SEDIMENTATION (BS & W)
E EXPLANATION ATTACHED
T THEFT

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE
T. A. TIPTON
(TYPED NAME)
505-325-4397
(PHONE NUMBER)
AREA MANAGER
(POSITION)
(SIGNATURE)
11-22-83
(DATE)

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. BOX 2088
Santa Fe, New Mexico 87504-2088

OPERATOR'S MONTHLY REPORT
Form C-115 - Revised 1/1/93
See Distribution and Code
Information Bottom of Page

Attachment V-B

Company TEXACO EXPLORATION & PRODUCTION INC. Address 3300 NORTH BUTLER FARMINGTON, NM 87401
Operator
For Month 10 1993 Page 9 of 125

POOL NAME (Underline) Lease Name WELL NO. UNIT SEC. TWP. RING.	WELL STATUS	INJECTION		PRODUCTION		GAS PRODUCED (MCF)	DAYS PROD	DISPOSITION OF GAS				DISPOSITION OF OIL						
		VOLUME	PRSS.	BARRELS OF OIL (COND. PRODUCED)	BARRELS OF WATER PRODUCED			SOLD	TRANS POR-TER	OTHER	CODE	OIL ON HAND AT BEG. OF MONTH	BBL'S TO TRANS-PORTER	TRANS POR-TER	OTHER	OIL ON HAND AT END OF MONTH		
LINDRITH GALLUP-DAKOTA WEST RENTZ, LYDIA 30-039-22970 8 C 19 25N 3W	P	0	0	73	31	10697 31												
		0		73	31	10697				10697	EPG	0		130	140	MDI	0	63

DISTRIBUTION

Original OCD Santa Fe
One Copy OCD Dist. Office
in which lease is located
One Copy to Transporter (s)

DATE DUE
To be postmarked by 24th day
of next succeeding month

STATUS CODE

"OTHER" GAS DISPOSITION CODE

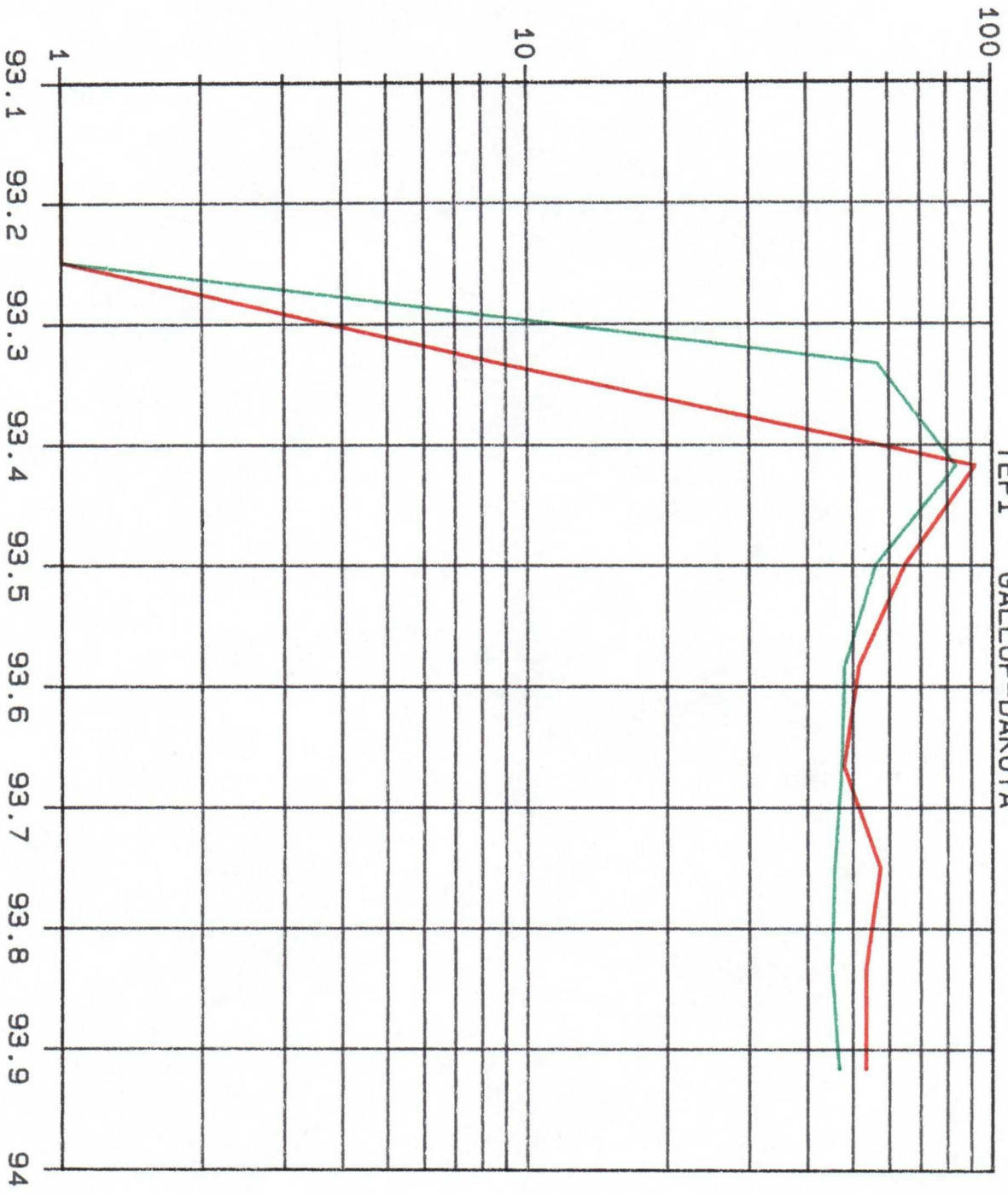
"OTHER" OIL DISPOSITION CODE

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

T. A. TIPTON
(TYPED NAME)
505-325-4397
(PHONE NUMBER)

AREA MANAGER
(POSITION)
11-22-93
(DATE)

MCCONNELL, L. L. 14 LINDRITH GALLUP-DAKOTA WEST



LEASE DATA
LSE FA3485
FLD 39189
OPER TEPI
ZONE GAL/DK
--
COUNTY 39
STATE 30

STATUS 11-93
CO 13 MBO
CG 13 MMCF
BOPD 47
BWPD 0
MCFPD 53
WELLS 1
CI 0 MBWT
BWIPD 0

YEARS

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals, and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. BOX 2088
Santa Fe, New Mexico 87504-2088

OPERATOR'S MONTHLY REPORT
Form C-115 - Revised 1/1/93
See Distribution and Code
Information Bottom of Page

Attachment V-C

Company TEXACO EXPLORATION & PRODUCTION INC. Address 3300 NORTH BUTLER FARMINGTON, NM 87401 Zip 87401 For Month 10 1983 Page 8 of 125

POOL NAME (Underline) Lease Name WELL NO. UNIT SEC. TWP. RNG.	WELL STATUS	INJECTION		PRODUCTION		DISPOSITION OF GAS		DISPOSITION OF OIL										
		VOLUME	PRSS.	BARRELS OIL/COND. PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	DAYS PROD	SOLD	TRANS- POR- TER	OTHER	CODE	OIL ON HAND AT BEG. OF MONTH	BEELS. TD TRANS- PORTER	TRANS- POR- TER	OTHER	CODE	OIL ON HAND AT END OF MONTH	
LINDRITH GALLUP-DAKOTA WEST RENTZ, LYDIA 30-038-22733 7 C 20 25N 3W	P	0	0	247	31	1903	31											
		0		247	31	1903		1883	EPG	20	U	204	210	MOI		0		241

DISTRIBUTION

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in which lease is located
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G GAS LIFT
L LOST (MCF ESTIMATED)
E EXPLANATION ATTACHED
R REPRESSURING OR
PRESSURE MAINTENANCE
V VENTED
U USED ON LEASE

"OTHER" OIL DISPOSITION CODE

C CIRCULATING OIL
L LOST
S SEDIMENTATION (BS & W)
E EXPLANATION ATTACHED
T THEFT

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS
TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

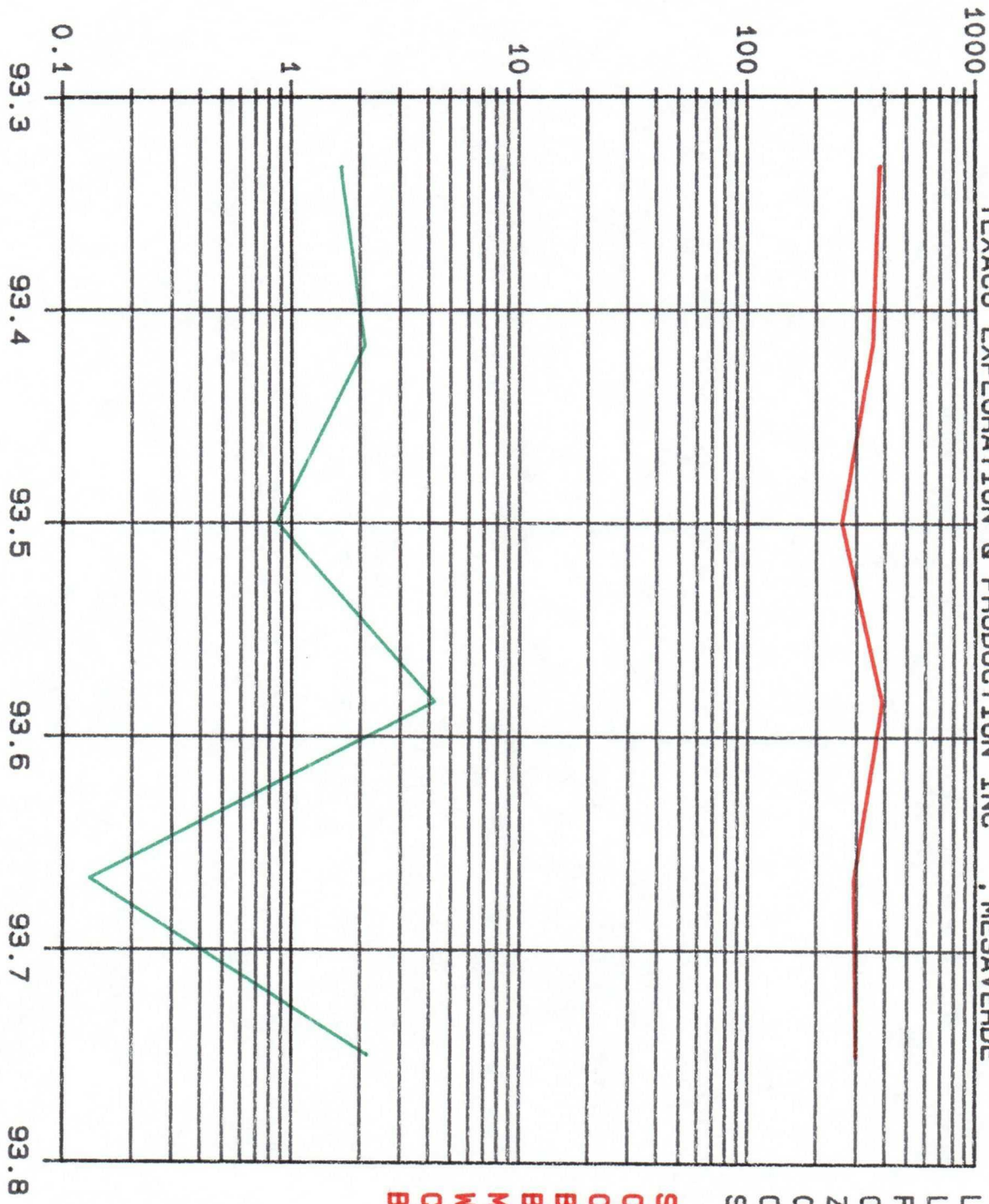
T. A. TIPTON
(TYPED NAME)
505-325-4397
(PHONE NUMBER)

AREA MANAGER
(POSITION)

(SIGNATURE) 11-22-83 (DATE)

Attachment VII

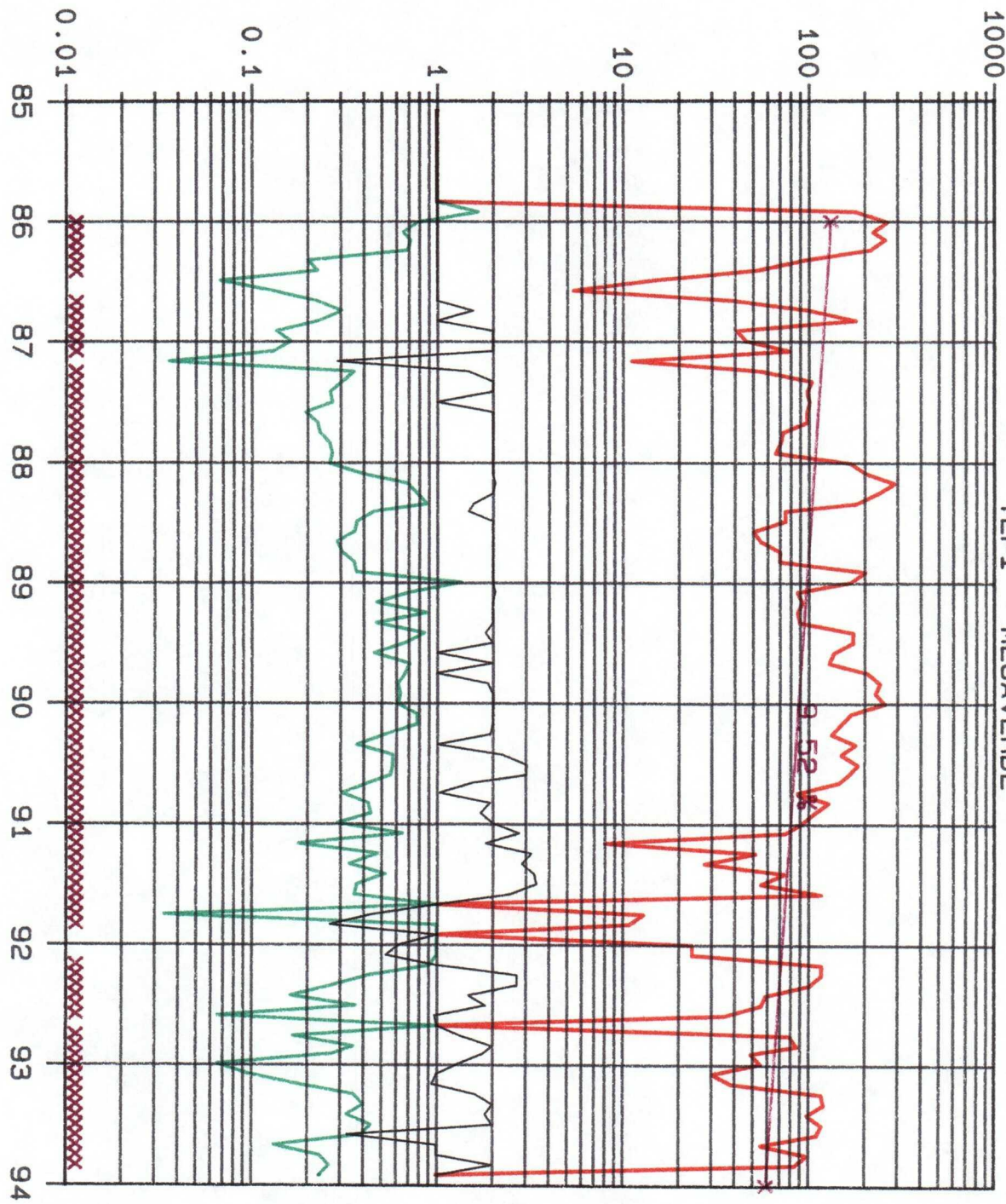
LYDIA RENTZ - 008 BLANCO
TEXACO EXPLORATION & PRODUCTION INC. MESAVERT



LEASE DATA
LSE 612980
FLD 5900
OPER 93322
ZONE 604
025N-003W-19
COUNTY 039
STATE 30
STATUS 9-93
CO 0 MBO
CG 60 MCF
BOPD 2
BWPD 0
MCFPD 296
WELLS 1
CI 0 MBWI
BWIPD 0

YEARS

ROBERTS, C. W. 3A BLANCO MESAVERT (PROPRATED GAS)
TEPI MESAVERT



LEASE DATA
LSE FA4180
FLD 72319
OPER TEPI
ZONE MV

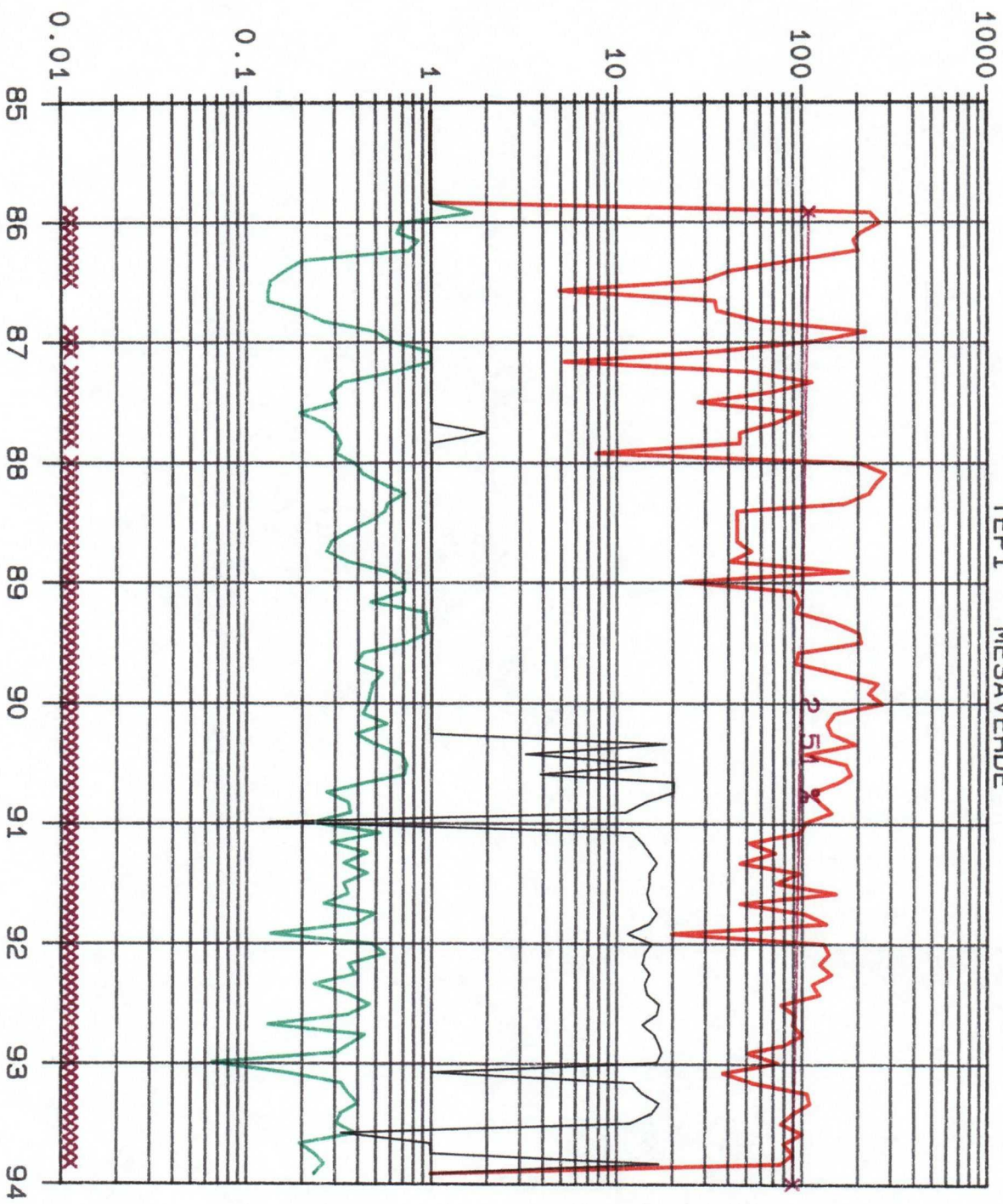
COUNTY 39
STATE 30

STATUS 11-93
CO 3 MBO
CG 532 MMCF
BOPD 0
BWPD 0
MCFPD 0
WELLS 1
CI 0 MBWI
BWIPD 0

YEARS

Attachment IX

ROBERTS, C. W. 6A BLANCO MESAVERDE (PROPRATED GAS)
TEPI MESAVERDE



LEASE DATA
LSE FA4180
FLD 72319
OPER TEPI
ZONE MV
COUNTY 39
STATE 30
STATUS 11-93
CO 2 MBO
CG 477 MMCF
BOPD 0
BWPD 0
MCFPD 0
WELLS 1
CI 0 MBWT
BWIPD 0

YEARS

PETRO LOG INC.

(806) 637-4993

P. O. Box 588

Brownfield, Texas 79316

TEXACO EXPLORATION & PRODUCTION, INC.

DATE RUN: 11-5-92

LYDIA RENTZ WELL NO. 8 , *uv*

DATE PULLED: 11-16-92

PRESSURE BUILDUP TEST

BOTTOMHOLE PRESSURE:

TEST DEPTH 5806'

WHEN FIRST REACHED BOTTOM - 976

WHEN FIRST SHUT-IN - 988

<u>TIME SINCE SHUT-IN (HOURS)</u>	<u>PRESSURE</u>	<u>TIME SINCE SHUT-IN (HOURS)</u>	<u>PRESSURE</u>
25.0	1384	150.0	1453
30.0	1389	160.0	1453
40.0	1413	170.0	1454
50.0	1423	180.0	1455
60.0	1428	190.0	1457
70.0	1433	200.0	1457
80.0	1440	210.0	1458
90.0	1441	220.0	1458
100.0	1443	230.0	1458
110.0	1446	240.0	1460
120.0	1448	250.0	1460
130.0	1451	257.0	1460
140.0	1449		

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator TEXACO E & P INC. Lease C.W. ROBERTS Well No. 6

Location of Well: Unit: G Sec. 18 Twp. 25N Rge. 3W County RIO ARriba

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO MESAVERDE	GAS	FLOW	TBG.
Lower Completion	LINDRETH GALLUP DAKOTA	OIL	FLOW	TBG.

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in 5-17-92	Length of time shut-in	SI press. psig	Stabilized (Yes or No)
Lower Completion	Hour, Date shut-in 5-17-92	Length of time shut-in	SI press. psig	Stabilized (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower) LOWER	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower completion		
4-20-92					'BOTH ZONES SHUTIN
4-21-92	24 HRS.	598	723	
4-22-92	48 HRS.	680	787	
4-23-92	72 HRS.	700	804	
4-24-92	96 HRS.	705	259		UPPER SHUTIN; LOWER FLOW 24 HRS.
4-25-92	120 HRS.	708	232		UPPER SHUTIN; LOWER FLOW 24 HRS.

Production rate during test

Oil BOPD based on Bbls. in Hours Grav. GOR

Gas MCFPD; Tested thru (Orifice or Meter):

MID-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, Date shut-in	Length of time shut-in	SI press. psig	Stabilized (Yes or No)
Lower Completion	Hour, Date shut-in	Length of time shut-in	SI press. psig	Stabilized (Yes or No)

CUM PRODUCTION AT TEST

31 MBO

282 MMCF

Attachment X
L. L. McConnell No. 14
Mesa Verde Workover Procedure

1. Obtain a Gallup/Dakota mixed oil sample under stable producing conditions. Sample will be sent to EPTD (K. K. Busada) for oil fingerprint analysis.
2. MIRUSU, NDWH, NUBOP.
3. POOH w/ rods, pump and tubing.
4. RIH w/ 5-1/2" RBP on 2-3/8" TBG to 7722', set RBP (between Gallup/Dakota). POOH w/TBG. RIH w/TBG and PKR, pressure test RBP to 1000 psi. POOH w/TBG and PKR.
5. RIH w/rods, pump, and tubing. Set pump at 7600' (below Gallup interval). NDBOP, NUWH. RDMOSU. Produce Gallup and gather accurate test and fluid level data. Collect oil sample to ship to EPTD for typing/fingerprint Gallup oil.
6. MIRUSU, NDWH, NUBOP.
7. POOH w/ rods, pump and tubing. RIH w/ retrieving head on 2-3/8" TBG. Release 5-1/2" RBP PUH to 6250' reset (above Gallup/Dakota). Dump 1 sk sand. Load hole and test RBP and CSG to 1000 psi. POOH w/TBG.
8. RU wireline and RIH and perf squeeze holes (2 spf) at 5100' and 6175' (no cement across the Mesa Verde interval as per cement bond log [1/21/93]. The 2nd cement stage during primary cementing was not pumped due to hole conditions).
9. RIH w/ PKR on 2-3/8" TBG, set PKR at 6100' and establish circulation between squeeze holes. POOH w/ TBG and PKR (evaluate for additional squeeze holes if circulation is not obtained).
10. RIH w/ CMT RETR on 2-3/8" TBG, set RETR at 6100', test RET and TBG to CMT circ pressure. Circ class "G" CMT with LFL through squeeze holes at 6175' with 375 sks (circ annular volume + 20%). Displace CMT inside TBG to RETR. Sting out of RETR and PUH 30'. Reverse TBG clean and POOH. SDFN, WOC.
11. RIH w/bit and collars, drill out CMT and RETR, test CSG to 1000 psi. If casing does not pressure test evaluate for resqueeze. TOH with bit and collars.
12. RIH w/ retrieving head on 2-3/8" TBG. Release RBP at 6250', PUH and reset at 6125'. Load hole and test RBP and CSG to 1000 psi. POOH w/TBG.

13. RIH with a 3-1/8" or 3-3/8" OD cased carrier gun and perforate the following Mesa Verde (Pt. Lookout) sand intervals with 2 JSPF, 120 degree phasing (ref: HLS DSN-SNL log dated 1/9/93):

5936' - 5947'
5960' - 5964'
5972' - 5978'
5986' - 5995'

4 Intervals, 58' Gross, 30' Net, 60 Holes, 5966' Midpoint

14. RIH with 5-1/2" treating PKR on 3-1/2" workstring, set PKR @ 5825'. RU Service Company and break down Pt. Lookout perfs with 1500 gals 7-1/2% NEFe HCL acid, 2% KCL water, 90, 7/8" 1.3 SG, RCN ball sealers.

Max Pressure: 3500 psi
Max Rate: 15 bpm

15. Surge balls and allow to fall.

16. Frac Mesa Verde (Pt. Lookout) perfs down TBG with 53,800 gals 35# and 30# X-Linked 2% KCL gel water and 110,400 lbs 20/40 Brady sand, tailing in with 26,400 lbs resin coated sand as follows:

27,000 gals 35# pad
5,500 gals 30# @ 2 ppg
7,600 gals 30# @ 4 ppg
7,100 gals 30# @ 6 ppg
3,300 gals 30# @ 8 ppg
3,300 gals 30# @ 8 ppg resin coated

Max Press: 3500 psig
Max Rate: 40 bpm

Flush to top perf with 2% KCL "slick water"; do not overflush. Go to flush immediately after all 8 lb is in; do not allow cleaning of the tub before going to flush. Take ISIP, then immediately begin forced closure. Flow back at +/- 1 bpm until closure has occurred. ("closure has occurred when an inflection point is seen on the pressure versus time chart).

17. POOH with 3-1/2" TBG. RIH w/ retrieving head on 2-3/8" TBG. Release RBP @ 6125', PUH to 5700' reset. Load hole and test RBP and CSG to 1000 psi. POOH w/TBG.

18. RIH with 3-1/8" or 3-3/8" OD cased carrier gun and perforate the following Mesa Verde (Menefee) sand interval with 2 JSFF (ref: HLS DSN-SNL log dated 1/9/93):

5493'-5498'
5514'-5518'

2 Intervals, 25' Gross, Net 9', 18 Holes, 5505' Midpoint

19. RIH w/ 5-1/2" treating PKR on 3-1/2" workstring, set PKR @ 5425'. Break down Menefee perfs with 500 gals 7-1/2% NEFe HCl acid, 2% KCL water, 30, 7/8" 1.3 SG, RCN ball sealers.

Max Pressure: 3500 psi

Max Rate: 15 bpm

20. Surge balls and allow to fall.

21. Frac Mesa Verde (Menefee) perfs down TBG with 35,900 gals 35# and 30# X-Linked 2% KCL gel water and 73,600 lbs 20/40 Brady sand, tailing in with 17,600 lbs resin coated sand as follows:

18,000 gals 35# pad

3700 gals 30# @ 2 ppg

5100 gals 30# @ 4 ppg

4700 gals 30# @ 6 ppg

2200 gals 30# @ 8 ppg

2200 gals 30# @ 8 ppg resin coated

Max Press: 3500 psi

Max Rate: 40 bpm

Flush to top perf with 2% KCL "slick water"; do not overflush. Go to flush immediately after all 8 lb is in: do not allow cleaning of the tub before going to flush. Take ISIP, then immediately begin forced closure. Flow back at +/- 1 bpm until closure has occurred then RD Service Company.

22. Shut well in overnight to allow resin coating to cure.

23. Flow back until dead. POOH with 3-1/2" TBG. RIH with 2-3/8" TBG to 5493'. Swab/flow test Mesa Verde (Menefee) interval. Obtain shut in pressure.

24. If Mesa Verde completion is successful RIH w/ retrieving head on 2-3/8" TBG and POOH w/RBP @ 5700'. GIH with notched collar, 2-3/8" (1.78" ID) API seating nipple one joint up on 2-3/8" TBG and cleanout to PBTD. POOH. RIH w/rods, pump and 2-7/8" production tubing. NDBOP, NUWH, RDMOSU. Put well on downhole commingled production (MV and G/DK).

25. If Mesa Verde completion is unsuccessful, squeeze Mesa Verde. RIH w/ retrieving head on 2-3/8" tubing and POOH with RBP @ 5700'. GIH with notched collar, 2-3/8" (1.78" ID) API seating nipple one joint up on 2-3/8" tubing and cleanout to PBTD. POOH. RIH with Gallup/Dakota production equipment. NDBOP, NUWH, RDMOSU. Return well to G/DK production.



L. L. McCONNELL No. 14

Current Completion

WELL:

L. L. McConnell No. 14
API No. 30-039-25249

LOCATION:

855' FNL & 790' FWL
Sec. 29, T25N, R3W
Rio Arriba County, NM

ELEVATION: 7394' KB**FORMATION TOPS:**

Ojo Alamo 3398'
Fruitland 3260'
Pictured Cliffs 3780'
Lewis 3844'
Chacra 4678'
Menefee 5446'
Pt Lookout 5950'
Mancos 6091'
Gallup 6915'
Greenhorn 7916'
Graneros 7974'
Dakota 7985'
Morrison 8224'

PROPOSED MESA VERDE PERFORATIONS:

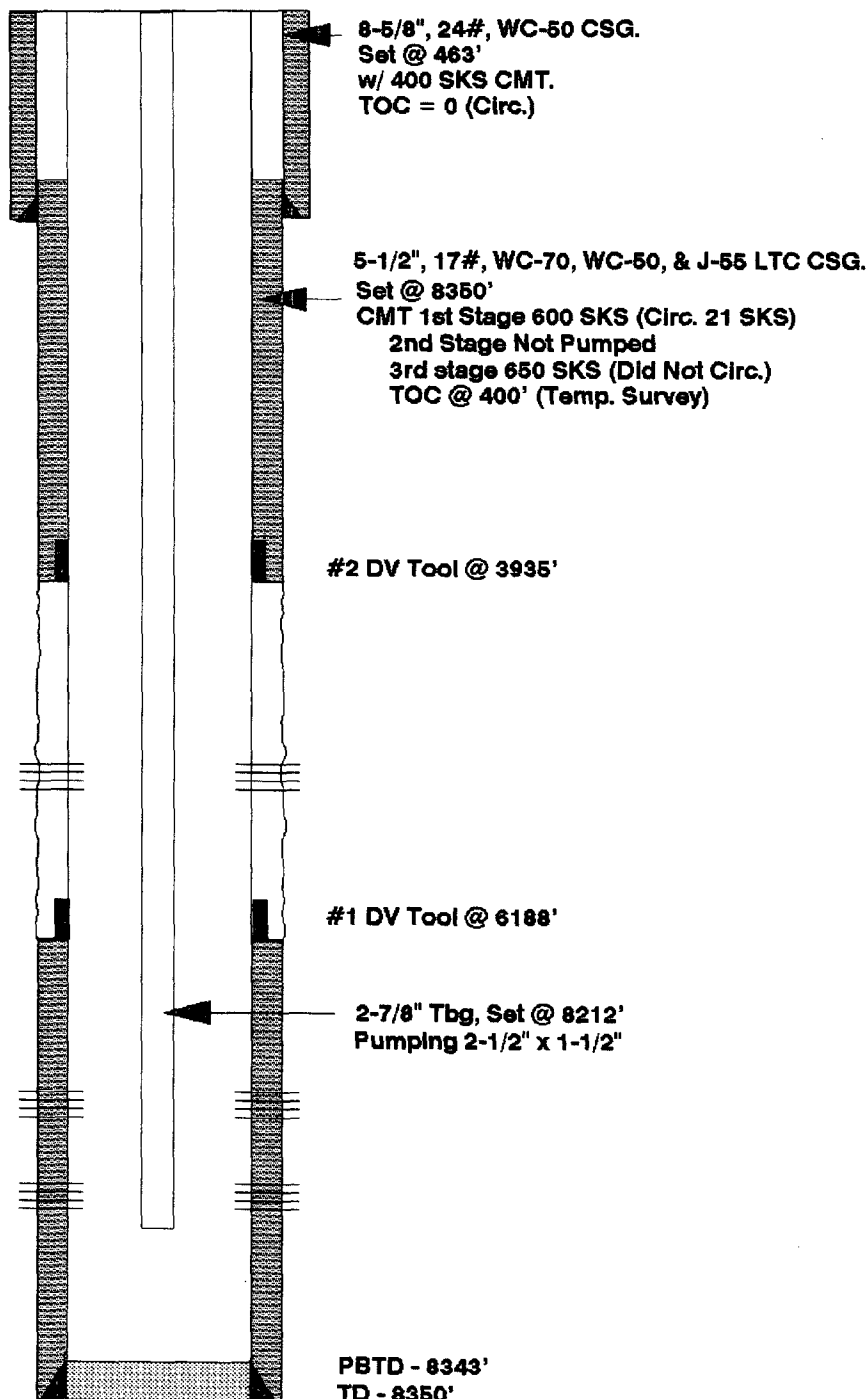
5493'-98', 5936'-47', 5960'-64',
5972'-78', 5986'-95'

GALLUP PERFORATIONS (1990):

7112'-26', 7140'-56', 7168'-84',
7198'-7205', 7212'-19', 7270'-82',
7288'-92', 7302'-12', 7362'-78',
7403'-08', 7412'-18', 7426'-36'
w/ 1 JSPF, 123 Ft of Holes.
Frac w/ 436,000# SND

DAKOTA PERFORATIONS (1990):

8008'-30', 8086'-90', 8160'-90'
w/ 2 JSPF, 56 Ft. of Holes.
Frac w/ 244,000# SND



Microsoft Mail v3.0 IPM.Microsoft Mail.Note

From: Ernie Busch

To: Ben Stone
David Catanach

Subject: TEXACO EXPL & PROD INC. (DHC)

Date: 1994-03-25 07:09

Priority: R

Message ID: 3EAC9ADD

Conversation ID: 3EAC9ADD

WELL NAME: L.L. McCONNELL #14

LOCATION: D-29-25N-03W

FOOTAGE: 855 FNL; 790 FWL

RECOMMEND: APPROVAL
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