



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

1994 FEB 14 PM 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 Jacobs

DATE: 1-31-94

**SENDER:**  
 Complete items 1 and/or 2 for additional services.  
 Complete items 3, 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.

I also wish to receive the following services (for an extra fee):  
 1.  Addressee's Address  
 2.  Restricted Delivery  
 Consult postmaster for fee.

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  
 Certified  
 Insured  
 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)  
 [Signature]

6. Signature (Agent)  
 [Signature]

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, 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.

I also wish to receive the following services (for an extra fee):  
 1.  Addressee's Address  
 2.  Restricted Delivery  
 Consult postmaster for fee.

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

4a. Article Number  
 P 081 443 765

4b. Service Type  
 Registered  
 Certified  
 Insured  
 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)  
 [Signature]

6. Signature (Agent)  
 [Signature]

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

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I also wish to receive the following services (for an extra fee):  
 1.  Addressee's Address  
 2.  Restricted Delivery  
 Consult postmaster for fee.

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  
 Certified  
 Insured  
 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)  
 [Signature]

6. Signature (Agent)  
 [Signature]

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

**SENDER:**  
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 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.

I also wish to receive the following services (for an extra fee):  
 1.  Addressee's Address  
 2.  Restricted Delivery  
 Consult postmaster for fee.

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

4a. Article Number  
 P 337 999 190

4b. Service Type  
 Registered  
 Certified  
 Insured  
 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)  
 [Signature]

6. Signature (Agent)  
 [Signature]

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



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

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

**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 similiar 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 similiar 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
TEXACO 30	L.L. McCONNELL #14 TEXACO 29	MERIDIAN OIL, INC DUGAN PROD. CO 28
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

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

**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

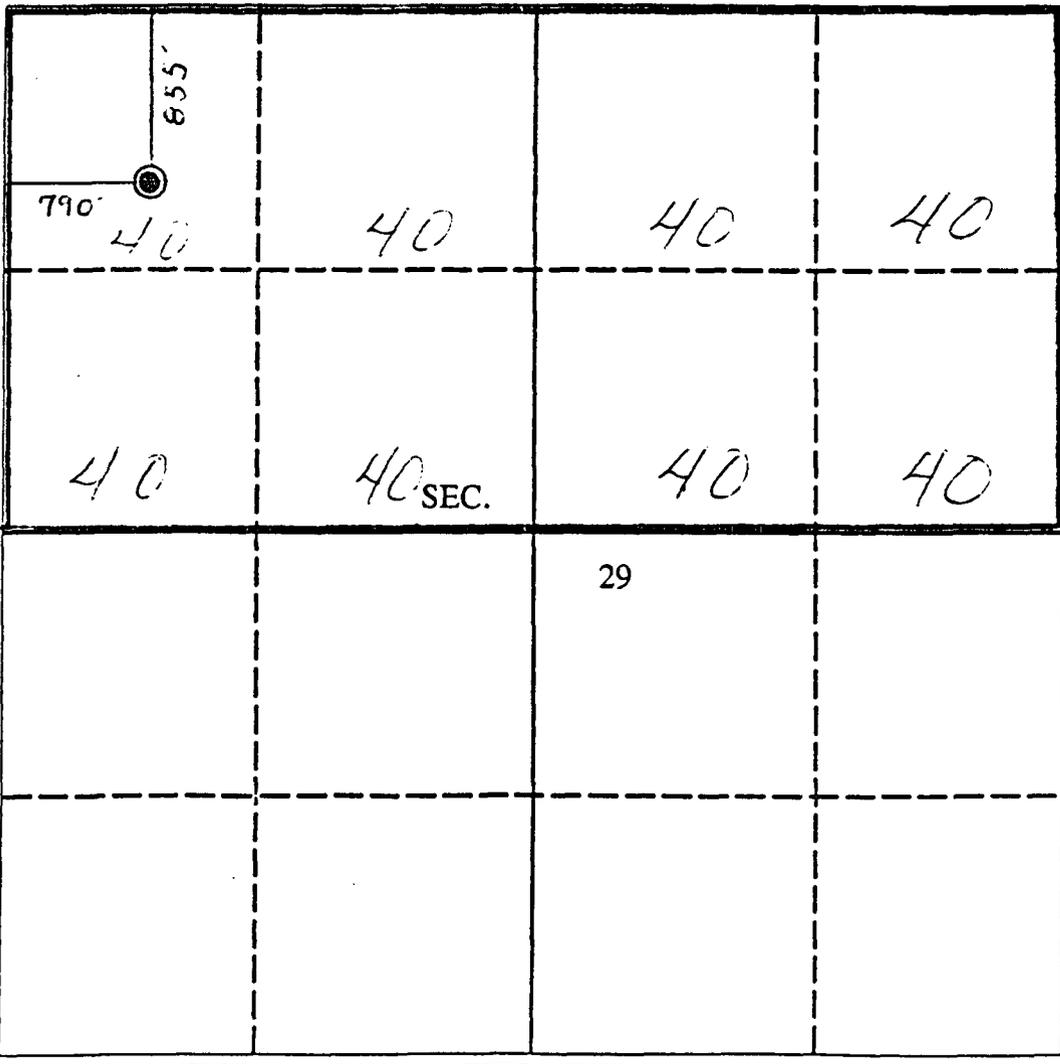
Operator Texaco Exploration & Production Inc.		Lease L.L. McCONNELL		Well No. 14
Unit Letter D	Section 29	Township 25N	Range 3W	County NMPM Rio Arriba
Actual Footage Location of Well: 855' feet from the North line and 790' feet from the West line				
Ground level Elev. 7388'	Producing Formation Mesa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

- 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 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: *Ted A. Tipton*

Printed Name: Ted A. Tipton

Position: Area Manager

Company: Texaco E & P Inc.

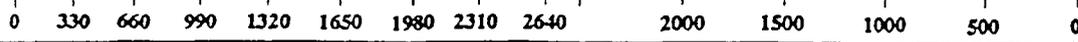
Date: 1-17-93

**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.: \_\_\_\_\_



**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

*McAdams III*

Company **TEXACO EXPLORATION & PRODUCTION INC.** Address **3300 NORTH BUTLER FARMINGTON, NM 87401** Zip **87401**  
 or Operator **TEXACO EXPLORATION & PRODUCTION INC.**

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	PRESS.	BARRELS OIL/COND. PRODUCED	BARRELS OF WATER PRODUCED			SOLD	TRANSPOR- TER	OTHER	BOG	OIL DN. HAND AT BEG. OF MONTH	BBLS. TO TRANS- PORTER	TRANSPOR- TER	OTHER	CODE
<b>LINDRITH GALLUP-DAKOTA WEST</b>																		
<b>MCCONNELL, L. L.</b>																		
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		1954	37	4577		4499	EPG	78	U	817	1947	MOI	0	824

**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**  
 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 (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 (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)  
**AREA MANAGER**  
 (POSITION)

**505-325-4397**  
 (PHONE NUMBER)  
**11-22-93**  
 (DATE)

(SIGNATURE) \_\_\_\_\_ (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

*Halverson V - A*

Company Operator **TEXACO EXPLORATION & PRODUCTION INC.** Address **3300 NORTH BUTLER FARMINGTON, NM 87401** Zip **87401** For Month **10** Year **1993** 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)		SOLED	TRANS-PORTER	OTHER	SOLED	BARRELS TO TRANS-PORTER	TRANS-PORTER	OTHER	SOLED	OIL ON HAND AT END OF MONTH
<b>LINDRITH GALLUP-DAKOTA WEST</b>																	
<b>ROBERTS, C. W.</b>																	
30-039-22732	3A	L 18 25N 3W	0	0	46	124	398	31									
30-039-21295	5	F 17 25N 3W	0	0	41	0	722	31									
30-039-22731	6	G 18 25N 3W	0	0	56	53	1254	31									
30-039-22784	6A	E 18 25N 3W	0	0	45	31	384	31									
-----			0		188	208	2758		2660	EPG	98	U	238	202	MOI	0	224

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

**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  
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 G ..... GAS LIFT  
 L ..... LOST (MCF ESTIMATED)  
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 R ..... REPRESSURING OR  
 PRESSURE MAINTENANCE  
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 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) \_\_\_\_\_  
 (DATE) **11-22-93**

**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  
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*Atchewent V-B*

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

POOL NAME (Underline) Lease Name WELL NO. UNIT SEC. TWP. RANG.	WELL STATUS	INJECTION			PRODUCTION			DISPOSITION OF GAS			DISPOSITION OF OIL					
		VOLUME	PRSS.	BARRELS OIL/COND. PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	DA S & P	SOLID	TRANS- POR- TER	OTHER	COOE	OIL ON HAND AT BEG. OF MONTH	BBL. TO. TRANS- PORTER	TRANS- POR- TER	OTHER	HO O
<u>LINDRITH GALLUP-DAKOTA WEST</u> RENTZ, LYDIA 30-039-22970 B C 19 25N 3W	P	0	0	73	31	10697 31		10697	EPG	0	130	140	MDI	0		63
		0		73	31	10697		10697	EPG	0						

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

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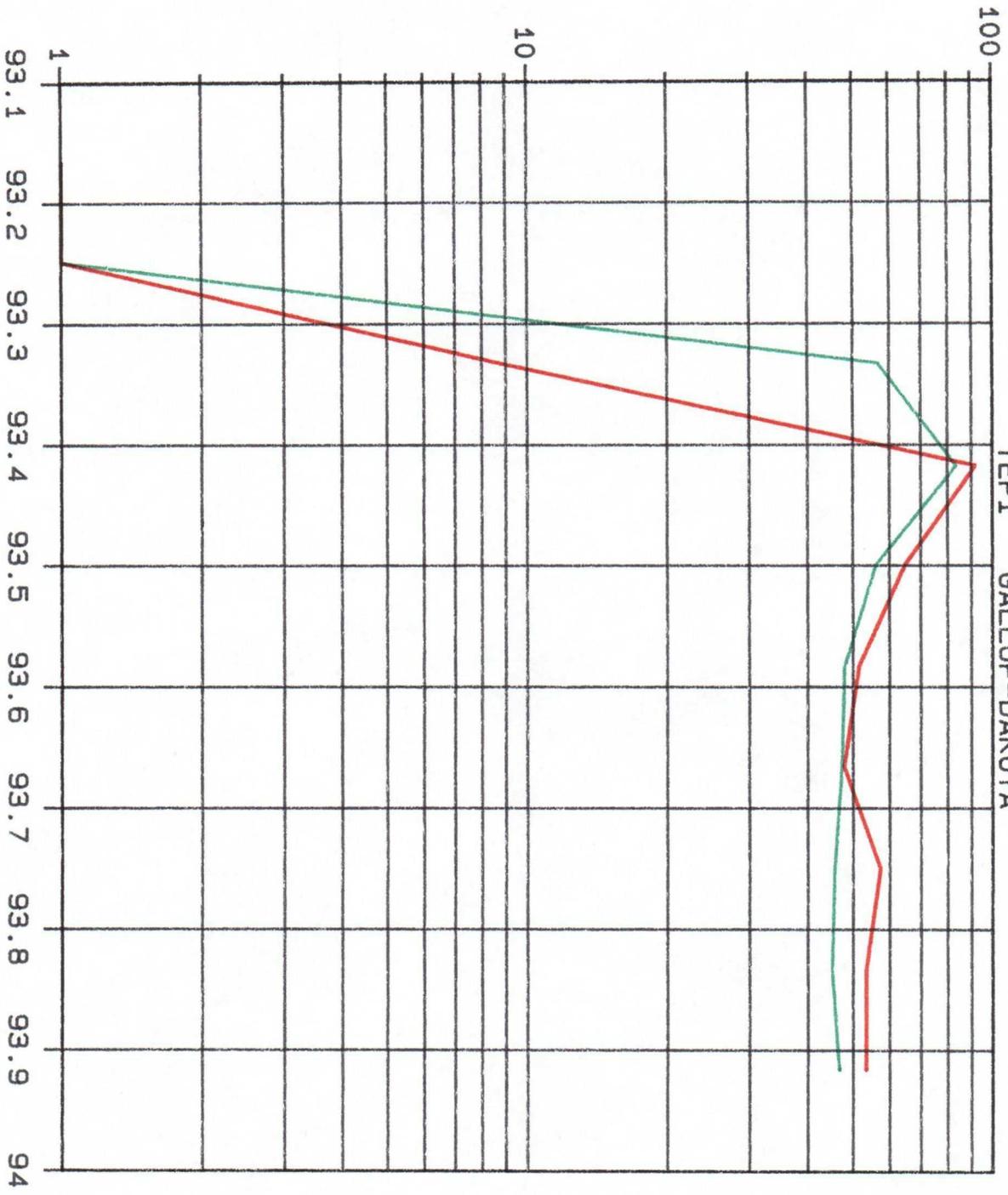
**"OTHER" GAS DISPOSITION CODE**  
 X.....USED OFF LEASE  
 D.....USED FOR DRILLING  
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 L.....LOST (MCF ESTIMATED)  
 E.....EXPLANATION ATTACHED  
 R.....REPRESSURING OR  
 PRESSURE MAINTENANCE  
 V.....VENTED  
 U.....USED ON LEASE

**"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) \_\_\_\_\_ (DATE) **11-22-93**

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

TEPI GALLUP-DAKOTA



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 MBWI  
 BWIPD 0

YEARS

BOPD BWPD MCFPD

**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

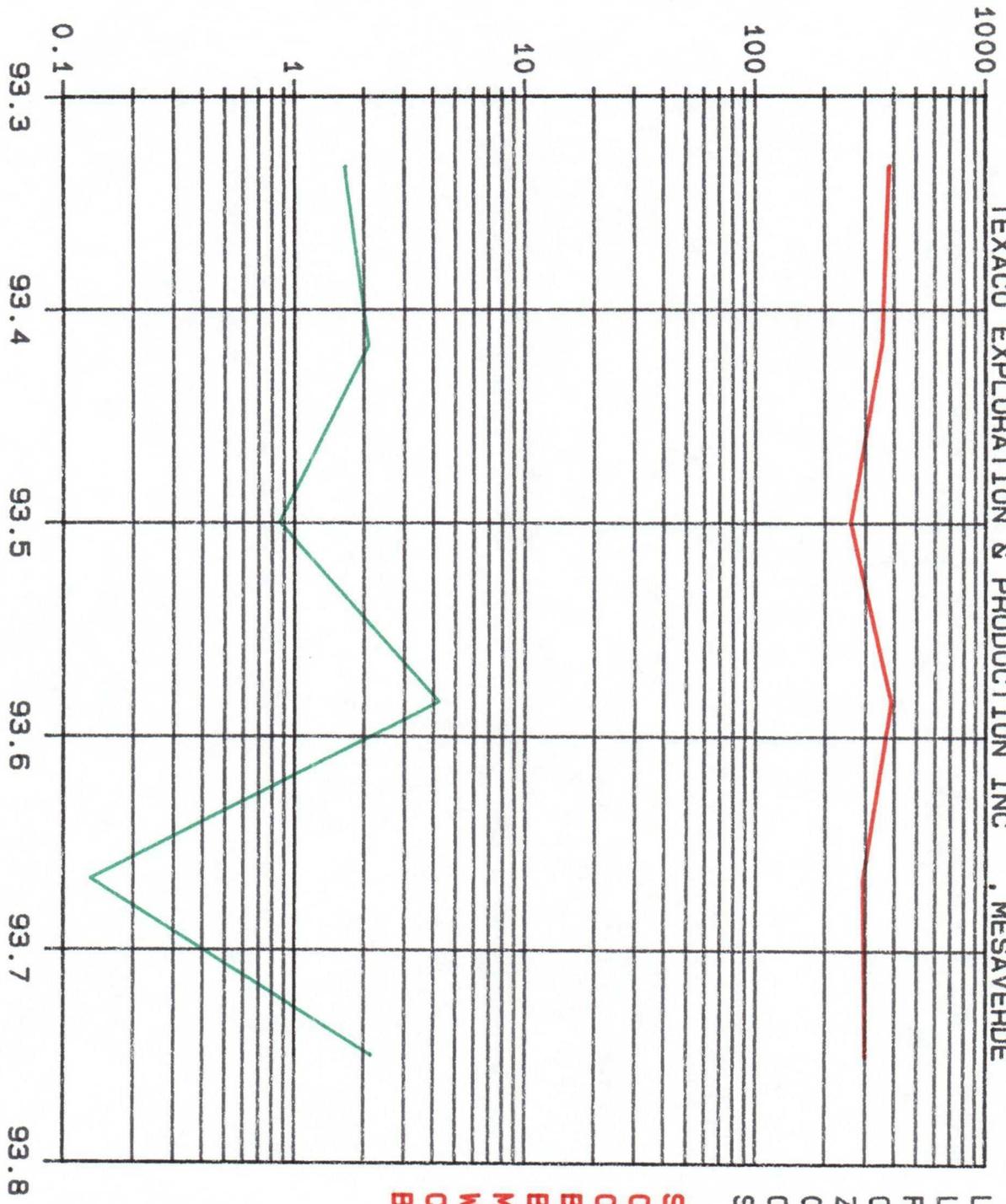
State of New Mexico  
 Energy, Minerals, and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
 P.O. BOX 2088  
 Santa Fe, New Mexico 87504-2088

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

Company of Operator **TEXACO EXPLORATION & PRODUCTION INC.** Address **3300 NORTH BUTLER FARMINGTON, NM 87401** Zip **87401**  
 For Month, **10 1993** Page **8** of **125**

POOL NAME (Underline) Lease Name	WELL NO. UNIT SEC. TWP. RANG.	WELL STATUS	INJECTION			PRODUCTION			DISPOSITION OF GAS	DISPOSITION OF OIL								
			VOLUME	PRSS.	BARRELS OIL/COND. PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	DISPOSED		SOLD	TRANS- POR- TER	OTHER	FOOD	OIL ON HAND AT BEG. OF MONTH	BARRELS TO TRANS- PORTER	TRANS- POR- TER	OTHER	FOOD
<u>LINDRITH GALLUP-DAKOTA WEST</u> RENTZ, LYDIA	30-038-22733 7 C 20 25N 3W	P	0	0	247	31	1903	31	1883	EPG	20	U	204	210	MOI	0	0	241
DISTRIBUTION			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						
Original OGD Santa Fe One Copy OGD Dist Office In which lease is located One Copy to Transporter (s)			F ..... FLOWING P ..... PUMPING G ..... GAS LIFT S ..... SHUT IN T ..... TEMP. ABANDONED I ..... INJECTION D ..... DISCONTINUED			X ..... USED OFF LEASE D ..... USED FOR DRILLING G ..... GAS LIFT L ..... LOST (MCF ESTIMATED) E ..... EXPLANATION ATTACHED R ..... REPRESSURING OR P ..... PRESSURE MAINTENANCE V ..... VENTED U ..... USED ON LEASE			C ..... CIRCULATING OIL L ..... LOST S ..... SEDIMENTATION (BS & W) E ..... EXPLANATION ATTACHED T ..... THEFT			TYPED NAME: <b>T. A. TIPTON</b> AREA MANAGER (POSITION) (PHONE NUMBER) <b>505-325-4397</b> (SIGNATURE) _____ (DATE) <b>11-22-93</b>						

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

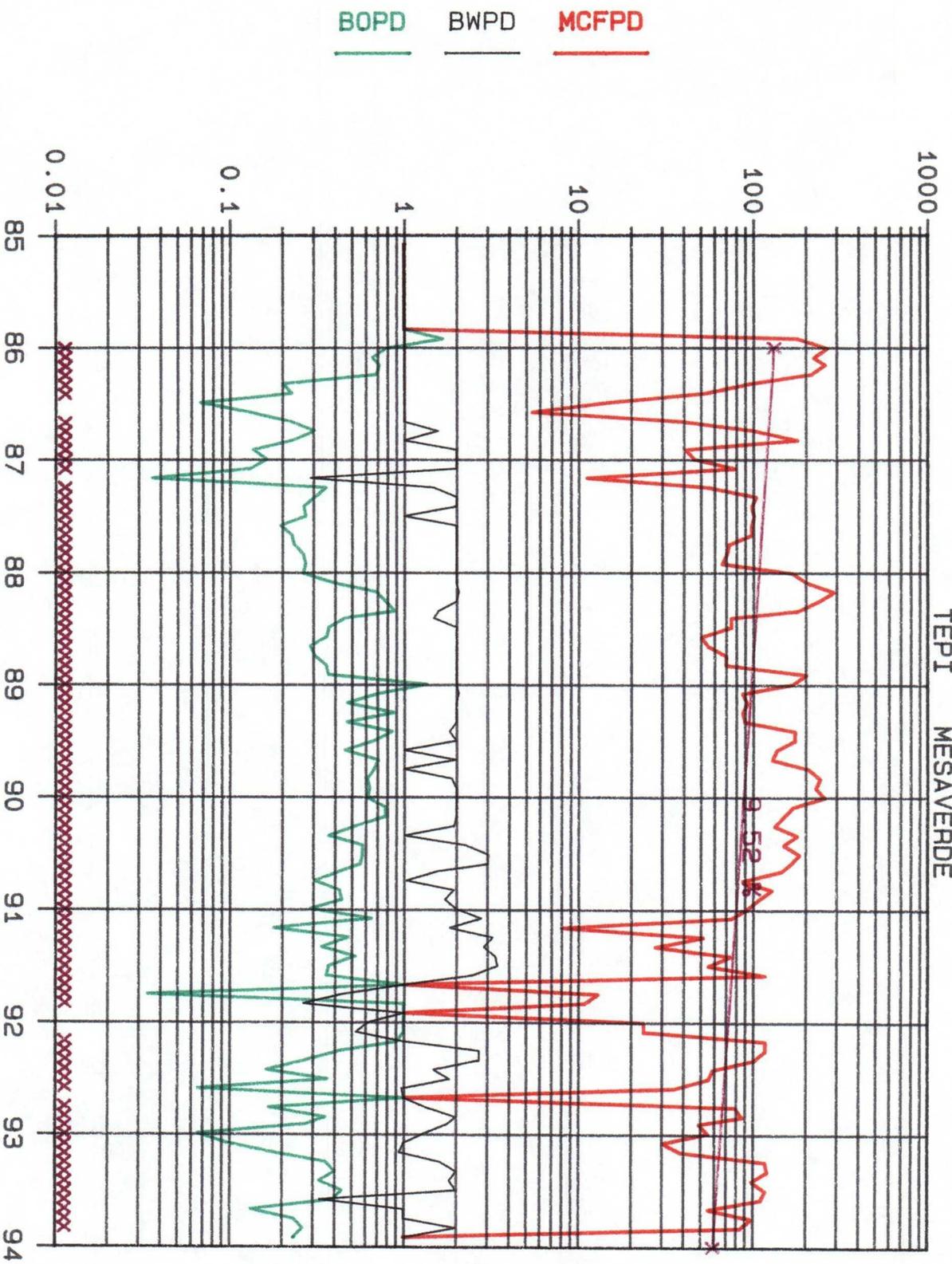


LEASE DATA  
LSE 612980  
FLD 5900  
OPER 93322  
ZONE 604  
025N-003W-19  
COUNTY 039  
STATE 30

STATUS 9-93  
CO 0 MBO  
CG 60 MMCF  
BOPD 2  
BWPD 0  
MCFPD 296  
WELLS 1  
CI 0 MBWI  
BWIPD 0

YEARS

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

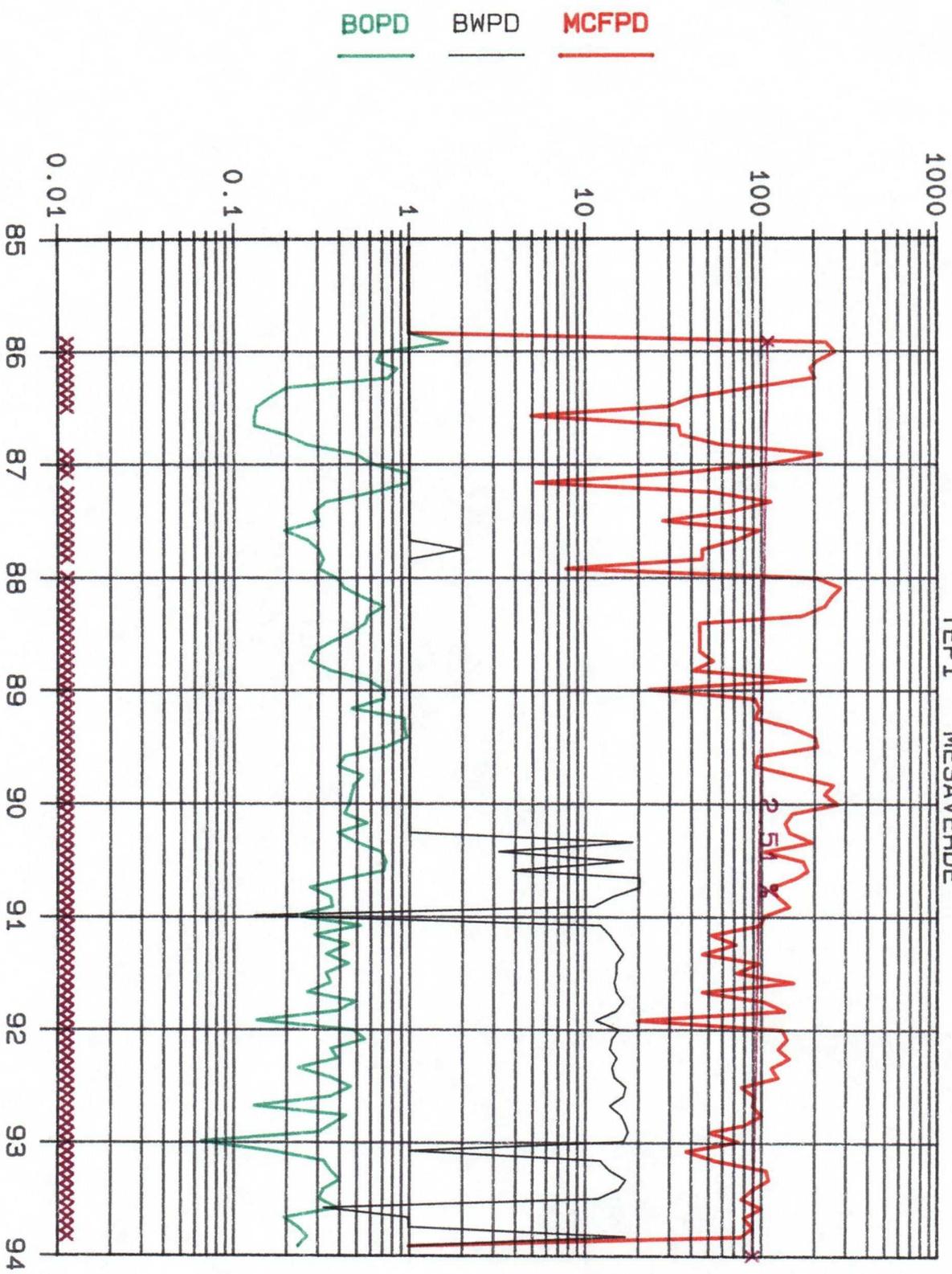


LEASE DATA  
LSE FA4180  
FLD 72319  
OPER TEPI  
ZONE MV  
--  
COUNTY 39  
STATE 30

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

YEARS

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  
BMPD 0  
MCFPD 0  
WELLS 1  
CI 0 MBWI  
BWIPD 0

YEARS

# PETRO LOG INC.

(806) 637-4993

P. O. Box 588

Brownfield, Texas 79316

TEXACO EXPLORATION &amp; PRODUCTION, INC.

DATE RUN: 11-5-92

LYDIA RENTZ WELL NO. 8 <sup>MV</sup>

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)	
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 MMLCF

**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 perms 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) perms 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:**

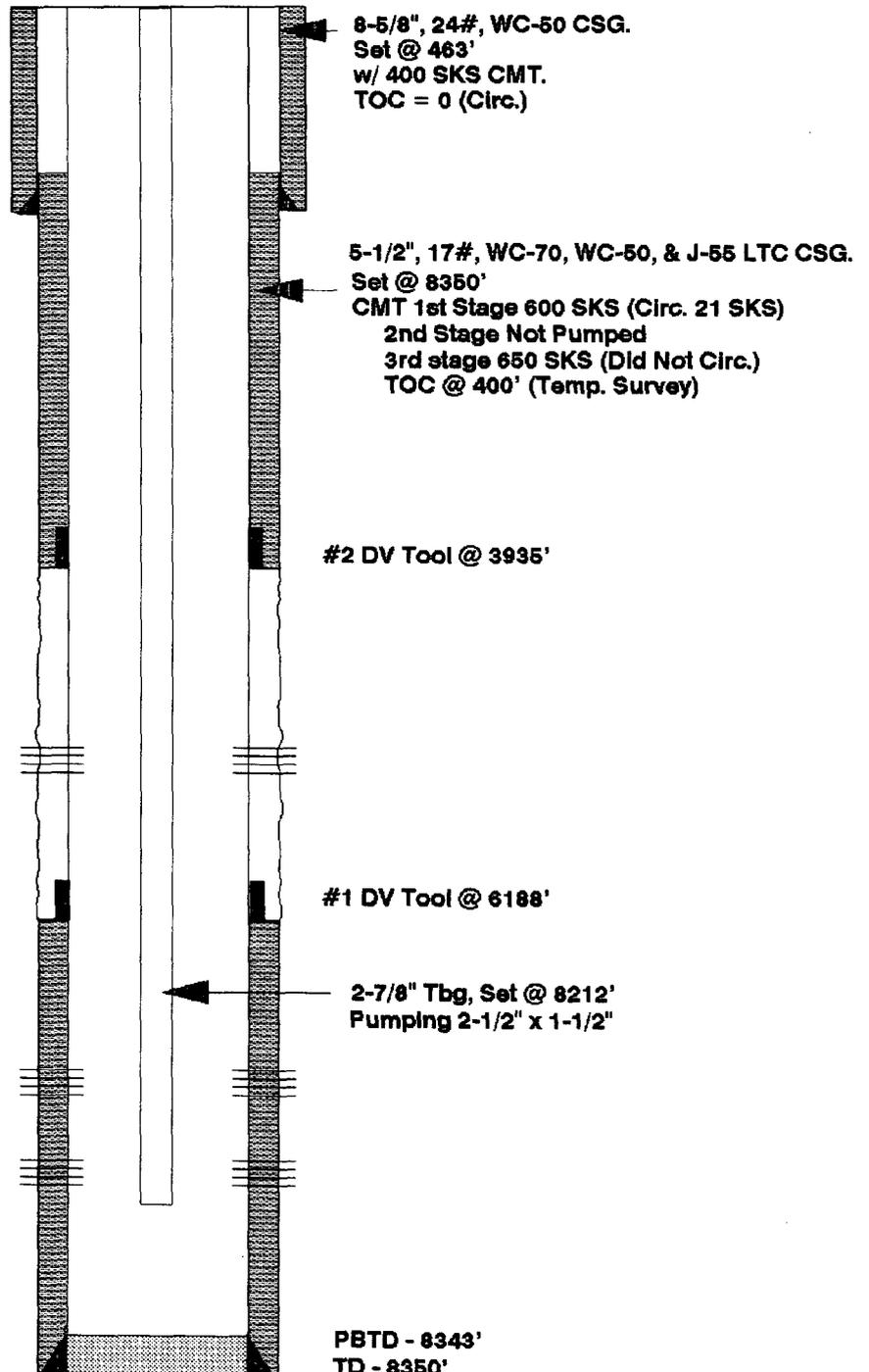
5493'-98', 5936'-47', 5960'-64',  
5972'-78', 5986'-95'

**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

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WELL NAME: L.L. McCONNELL #14

LOCATION: D-29-25N-03W

FOOTAGE: 855 FNL; 790 FWL

RECOMMEND: APPROVAL  
=====