

CHE CONSERVATION DIVISION

Texaco Exploration and Production Inc

RE3300 N=Butler Farmington NM 87401

\*54 AP 134 PM 8 50

March 25, 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

Attention: David Catanach

RE: Application for exception to NMOCD Rule 303-A: Downhole Commingle

of Lydia Rentz No. 11: 840' FSL & 1820' FEL, Unit O, Sec. 19-T25N-R3W, NMPM, Rio Arriba County, New Mexico

Dear Mr. Catanach:

 $\omega$  ,  $\varepsilon$ 

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

Jaa Ja

MRR/s

Attachments NMOCD-Aztec file 325 J357 PUR

SENDEK: Complete items 1 and/or 2 for additional services Complete items 3, and 46 & b.; Print your name and address on the reverse of this form as	l aleg wish to receive the following services (for an extra that we can fee):
return this card to you.	
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delivered.  3. Article Addressed to:	4s. Article Number
Conoco Inc.	* P 337 999 185 * 4b. Service Type
7415 E. Main Farmington, NM 87402	☐ Registered ☐ Insured
	Express Mail Return Receipt for Merchandise
<b>V</b>	7. Date of Delivery
5. Signature (Addressee)	8. Attrigesee's Address (Only if request and fee is paid)
6. Signature (Agent)	
PS Form 3811 December 1991 * U.S.G.P.O.: 1992	307-530 DOMESTIC RETURN RECEI
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Complete items 1 and/or 2 for additional services.     Complete items 3, and 4e & h	I also wish to receive the
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Attach this form to the front of the mailpiece, or on the bed does not permit.     Write "Return Receipt Requested" on the mailpiece below the a	
The Return Receipt will show to whom the article was delivered.  Article Addressed to:	Consult postmaster for fee.
MW Petroleum COrp.	4a. Article Number P 337 999 191
1700 Lincoln St., Ste 1900	4b. Service Type
Denver, CO 80203	COD  Express Mail  Return Receipt for
	7. Date of Delivery 1004
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6. Signet (Agent)	and fee is paid)
PS Form 3811, December 1991 ★ USG PO 1992 9	
73 Form 36 11, December 1991 * U.S.G.P.O.: 1992-30	07-530 DOMESTIC RETURN RECEIPT
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Print your name and address on the reverse of this form so the return this card to you.	I also wish to receive the following services (for an extra fee):
Attach this form to the front of the mailpiece, or on the back does not permit.	if space 1.   Addressee's Address
The Return Receipt will show to whom the article was delivered addivered.	icle number. 2. Restricted Delivery
3. Article Addressed to: Southland ROYALTY Company	Consult postmaster for fee.  4a. Article Number
P.O. Box 4239	P 337 994 917 4b. Service Type
2919 Allen PKWY Houston, TX 77210	☐ Registered ☐ Insured ☐ COD
The state of the s	Express Mail Return Receipt for Merchandise
	Z. Date of Delivery P 1884
5. Signature (Addresses)	N. 8 0 (88)
5. Signature (Addressee)  6. Signature (Agent)	8. Addressee's Address (Only if requested and fee is paid)

DOMESTIC RETURN RECEIPT

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

NMOGCD

State of New Mexico ( rgy, Minerals and Natural Resources Depar Form C.102 Revised 1-1-89

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aziec,	NM 87410 All Dist	ances must be from the out	or boundaries of the	section	•
Operator		Lease			Well No.
	on & Production In		IA RENTZ		11.
Unit Letter Section		Range	3317	Cou	-
Actual Footage Location of		5N	<u> </u>	NMPM	Rio Arriba
840 feet fro	Courth	ties and	1820	ford from the	East line
Ground level Elev.	Producing Formation	line and Pool	1020	feet from the	Dedicated Acreage:
7254'	Mesa Verde	Blane	o Mesa Verd	le	320 Acres
2. If more than or	eage dedicated to the subject well, se lease is dedicated to the well, se lease of different ownership is ce-pooling, etc.?  No If an	outline each and identify the o	wnership thereof (both n interest of all owner	as to working inte	• •
if answer is "no" this form if necce No allowable will	list the owners and tract descript	ions which have actually been interests have been consolidate	consolidated. (Use re		ed-pooling, or otherwise)
	SEC.			Printed Position Compa	Name Ted A. Tipton  Area Manager
Lot 3 38.90	40	19 40	40	on this actual supervice correct belief.	by certify that the well location shors plat was plotted from field notes surveys made by me or under rison, and that the same is true at to the best of my knowledge at the surveyed
20+ 4 39.15	40	#11 40 ong	1820'- 40	Profes	ure & Seal of sional Surveyor
0 330 660 990 1	320 1650 1980 2310 26	40 2000 1500	1000 500	Certifi	cate No.

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

(1) Name and address of the operator: Texaco Exploration

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:

Lydia Rentz

Well Number:

11

Well Location:

840' FSL & 1820' FEL, Unit O, Sec. 19

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 Lydia Rentz No. 11 Gallup Dakota production is attached (Attachment IV). No production data exists for the proposed Mesa Verde completion. However, attached (Attachment V-A and V-B) are C-115's showing production from the nearest Mesa Verde completions. The Mesa Verde completion in the Lydia Rentz No. 11 is expected to perform in a similar manner.

(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.)

Lydia Rentz No. 11 Gallup/Dakota production data attached (attachment VI).

Mesa Verde - New completion, no production history is available. Decline curves of offsets Lydia Rentz No. 8, Lydia Rentz No. 4, C. W. Roberts 3 and C. W. Roberts No. 3A are attached (Attachments VII-A, VII-B, VII-C and VII-D). The Mesa Verde completion in the Lydia Rentz No. 11 is expected to perform in a similar manner.

(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 VIII)

Gallup/Dakota:

800 psi

(attachment IX)

Actual Mesa Verde P<sub>BH</sub> 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.

## <u>Application for Exception to Rule 303-SEGREGATION OF PRODUCTION FROM POOLS</u> Requirements Continued.

(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.

Current Gallup/Dakota Prod.	Anticipated Mesa Verde Production
Oil, BOPD 30	Oil, BOPD 0
Gas, MCFD 45	Gas, MCFD 600
Water, BWPD 5	Water, BWPD 1

The combined production from the Gallup/Dakota and Mesa Verde Formations will be approximately 645 MCFD, 30 BOPD and 6 BWPD.

The mechanics of the wellbore are not conducive to a "dual" completion. Given the 5-1/2" casing, dualling would require that the Gallup/Dakota be pumped under a packer and the Mesa Verde be flowed 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. It therefore requested that commingling be approved.

(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.

Using our <u>anticipated</u> rates as shown in item #8 as an example, allocation factors will be calculated as follows:

	<u>Gas</u>	<u>Oil</u>	<u>Water</u>
Mesa Verde	600/645 = 93%	30/30 = 100%	1/6 = 17%
Gallup/Dakota	45/645=7%	0/30 = 0%	5/6=83%

The <u>actual</u> production data obtained prior to and following the commingling process will be presented to the Aztec NMOCD District office to arrive at allocation factors for splitting the future production stream.

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.

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

NMOGCD

State of New Mexico rgy, Minerals and Natural Resources Deparent

Revised 1-1-89

OIL CONSERVATION DIVISION

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

Attachment I

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

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

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A Hackment I

## OFFSET OPERATORS LYDIA RENTZ # 11 SEC. 19 T25N / R03W

R 04 W R 03 W

TEXACO 17		TEXACO 20				TEXACO 29	
•				LYDIA RENTZ #11			
TEXACO 18		TEXACO 19		LYDIA		TEXACO 30	
CONOCO 13 SOUTHLAND ROYALTY	SOUTHLAND ROYALTY MW PETROLEUM	24 CONOCO	MW PETROLEUM	CONOCO MW PETROLEUM	25	SOUTHLAND ROYALTY MW PETROLEUM	36 CONOCO MW PETROLEUM

Attachment IIL

## Offset Operators LYDIA RENTZ #11

### Conoco Inc.

7. °\*

Petroleum Center Bldg., Ste. 115 501 Airport Dr. Farmington, NM 87401-2697 (505)327-9557

## MW Petroleum Corp. (Apache Corporation)

Ste. 1900 1700 Lincoln St. Denver, CO 80203 (303)837-5300

## Southland Royalty Company

P.O. Box 4239 2919 Allen Pkwy. Houston, TX 77210 (713)831-1600

Hackment A

State of New Mexico Energy, Minerals, and Natural Resources Department

OPERATOR'S MONTHLY REPORT Form C-115 - Revised 1/1/9: See Distribution and Code Information Bottom of Page

## OIL CONSERVATION DIVISION

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

3300 NORTH BUTLER Address FARMINGTON, NM

Year For Month, DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

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

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

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03-23-94

PRESSURE MAINTENANCE

Aftachment W-M

OPERATOR'S MONTHLY REPOR

Form C-115 - Revised 1/1/9: See Distribution and Code Information Bottom of Page

State of New Mexico Energy, Minerals, and Natural Resources Department

OIL CONSERVATION DIVISION

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

3300 NORTH BUTLER Address FARMINGTON, NM

87401

Zip

For Month, Year

2

1994

Page

8 2

of 125

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

DISTRICT II PO. Drawer DD, Artesia, NM 88210

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

Original OCD Senta Fe
One Copy OCD Dist. Office
in which lease is located
One Copy to Transporter (s) Company or Operator TEXACO EXPLORATION & PRODUCTION INC. AP NO WELL NO UNIT SEC. TWP. RNG **ELANCO MESAVERDE (PRORATED GAS)** NOITUBERTSIG 30-039-22733 30-039-22970 RENTZ, LYDIA POOL P NAME (Underline) Lease Name ဂ ဂ 20 25N 3W STATUS CODE .....FLOWING .....PUMPING 70 WELL STATUS VOLUME INJECTION 00 0 "OTHER" GAS DISPOSITION CODE .....USED FOR DRILLING .....USED OFF LEASE PRESS 00 BARRELS OIL:COND. PRODUCED --**PRODUCTION** BARRELS OF WATER PRODUCED 0 00 GAS PRODUCED (MCF) 6466 6466 0 "OTHER" OIL DISPOSITION CODE .....CIRCULATING OIL .....t0sT .....SEDIMENTATION (BS & W) 280 DAYS PROD DISPOSITION OF GAS 2010 6466 EPG TRANS POR-TER OTHER TRUE AND COMPLETE TO HEREBY CERTIFY THAT THE INFORMATION GIVEN IS (TYPED NAME T. A. TIPTON 0 CODE OIL ON
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(SICNATIOE)

03-23-94

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AREA MANAGER

.....EXPLANATION ATTACHED

...REPRESSURING OR

PRESSURE MAINTENANCE

.....GAS LIFT

.....GAS LIFT

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT I P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals, and Natural Resources Department

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OIL CONSERVATION DIVISION

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

or Operator TEXACO EXPLORATION & PRODUCTION INC. DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Address FARMINGTON, NM P.O. BOX 2088 Santa Fe, New Mexico 87504-2088

87401

Month, Year ŏ

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1994

Page

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of 125

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

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(CICNATUDE)

03-23-94

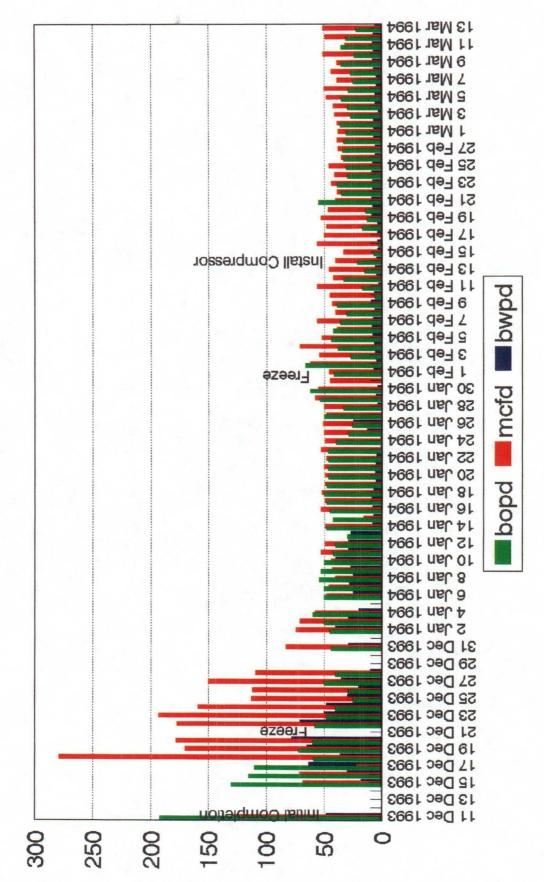
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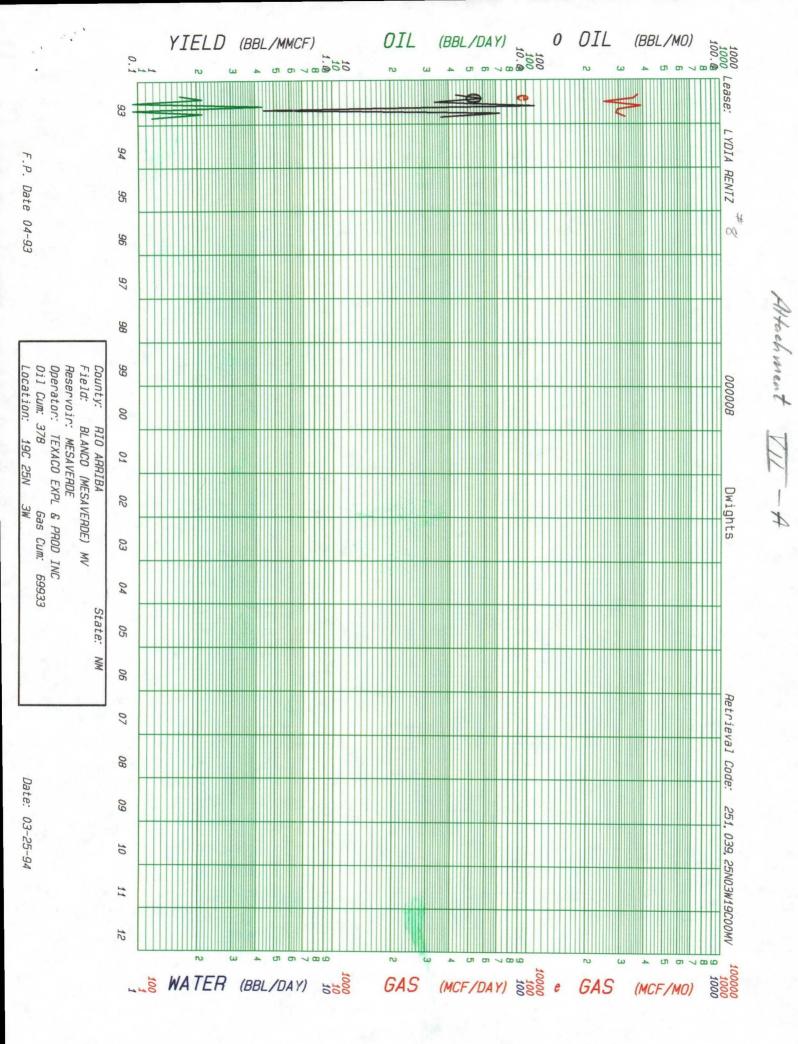
PRESSURE MAINTENANCE

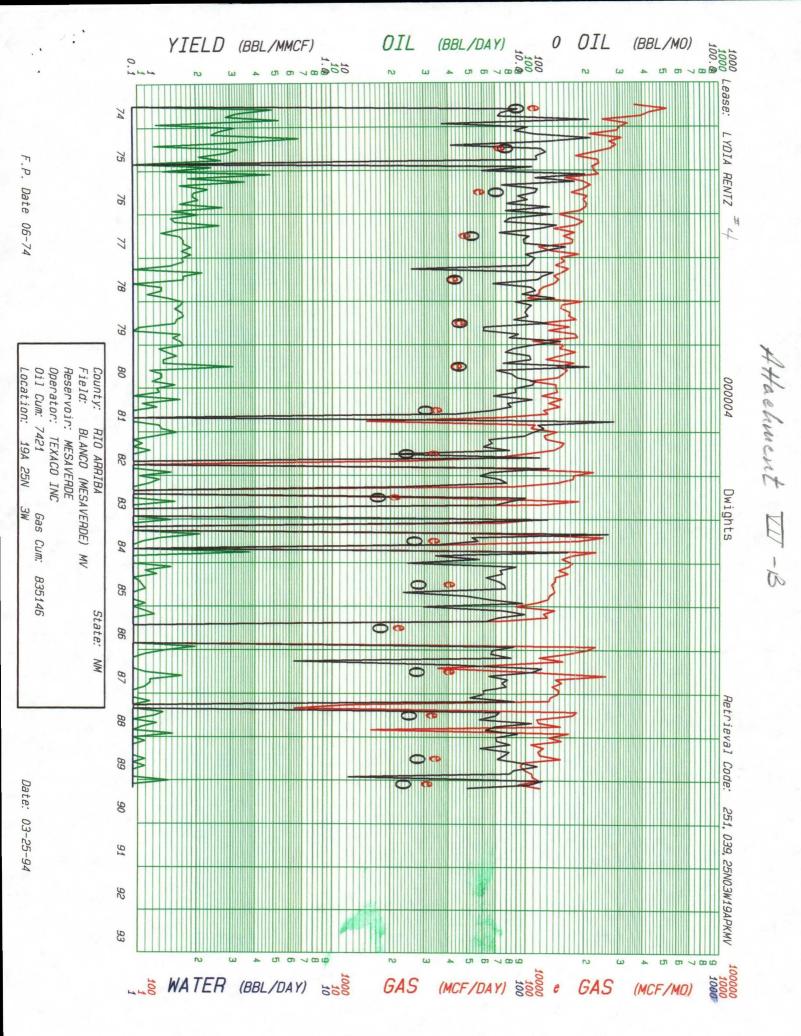
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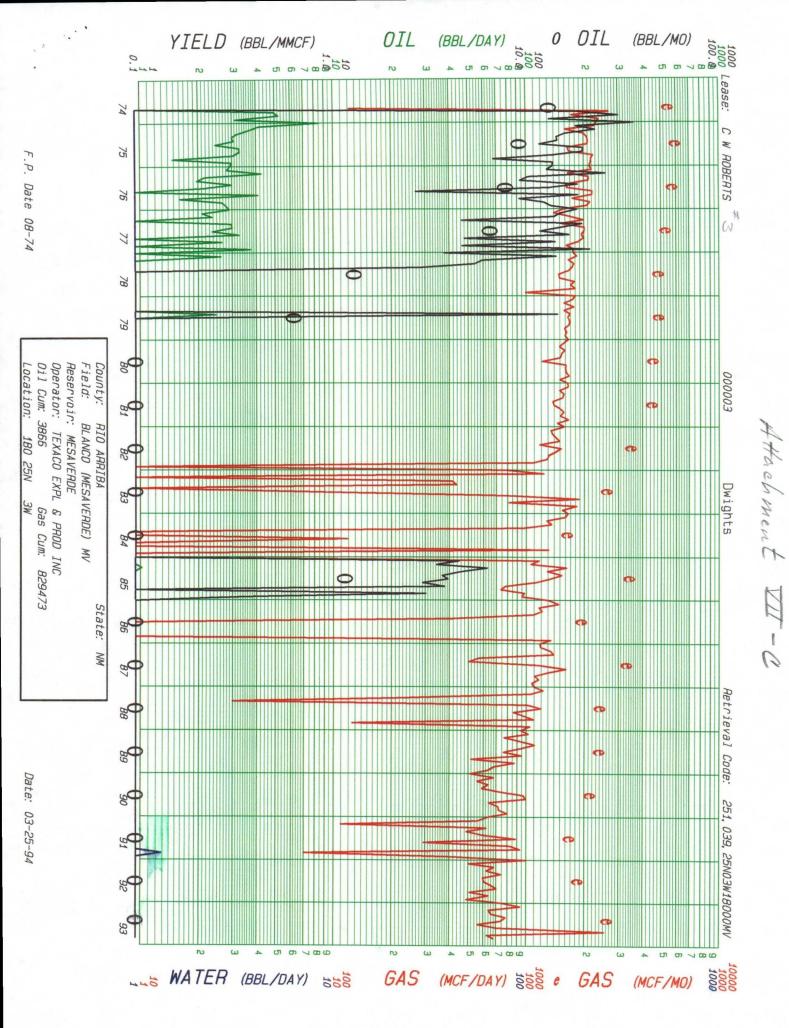
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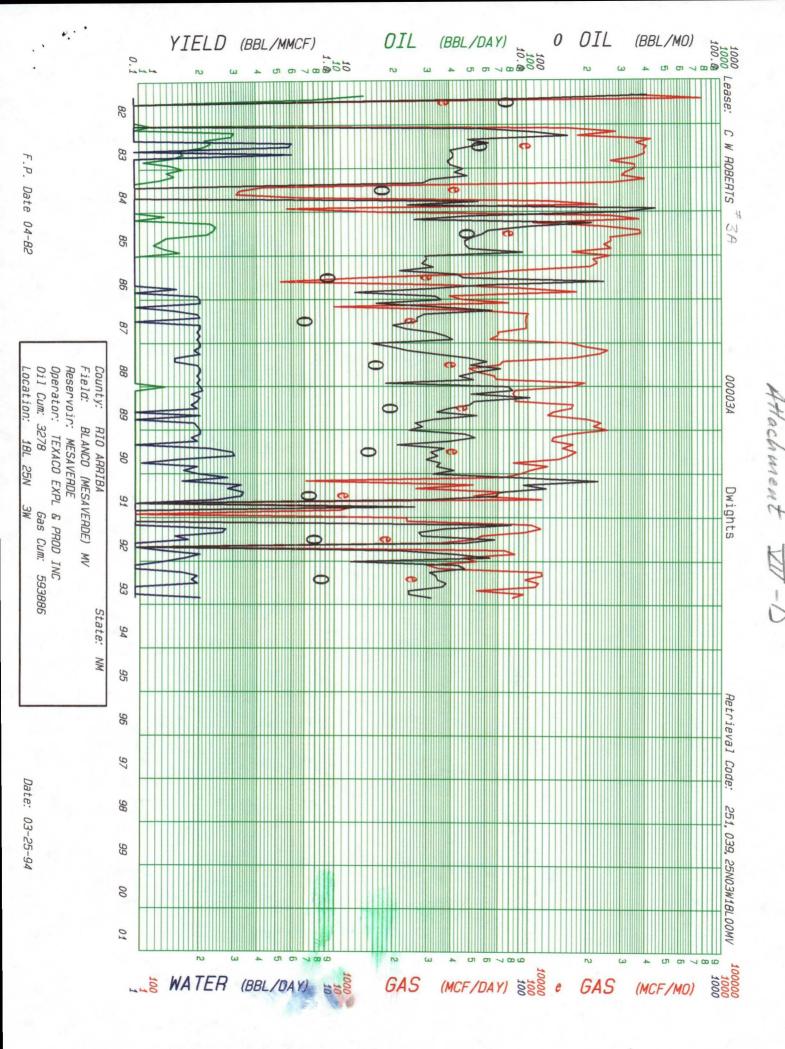












## PETRO LOG INC.

(806) 637-4993

P. O. Box 588

Brownfield, Texas 79316

TEXACO EXPLORATION & PRODUCTION, INC.

LYDIA RENTZ WELL NO. 8

PRESSURE BUILDUP TEST

TEST DEPTH 5806'

DATE RUN: 11-5-92

DATE PULLED: 11-16-92

BOTTOMHOLE PRESSURE:

WHEN FIRST REACHED BOTTOM - 976

WHEN FIRST SHUT-IN - 988

TIME SINCE SHUT-IN (HOURS)	PRESSURE	TIME SINCE SHUT-IN (HOURS)	PRESSURE
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

perator <u>TEXAC</u>	OE&PINC.			Lease	C.W. ROBERTS	Well No6_	
ocation   Well: Unit:_	G	Sec. <u>18</u> Twp	25N	Rgø	3W	County RIO ARR	IIBA
	ì	NAME OF RESERVOIR	OR POOL	•	TYPE OF PROD. (OIL OR GAS)	METHOD OF PROD.	PROD. MEDIUM (Tbg. or Csg.)
Upper Completic	on (	BLANCO MESAVERDE			GAS	FLOW	TBG.
Lower Completic		INDRETH GALLUP DA	AKOTA		OIL	FLOW	TBG.
		PRE-FLOW SI	HUT-IN	PRESSURE C	DATA		
Upper Completi		shut-in 5-17-92		Length of time	shut—in	Si press. psig	Stablized (Yes or No
Lower Completi	r Hour, Date			Length of time	shut-in	Si press. psig	Stablized (Yes or No
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_				thru (Orifice or f			
		MID	-FLOW 9	SHUT-IN PP	ESSURE DATA		
Upp	er (Hour Da	te shut-in		Length of tim		Si press. psig	Stablized (Yes or !

Length of time shut-in

Si press. psig

Stablized (Yes or No)

) CUM PRODUCTION AT TEST

Hour, Date shut-in

31 MBO 282 MMCF

Lower

Completion

## Attachment X

## Lydia Rentz No. 11 Mesa Verde Workover Procedure

- 1. MIRUSU, NDWH, NUBOP. POOH w/rods, pump and tubing.
- 2. RIH w/5-1/2" RBP on 2-7/8" TBG, set RBP @ 6125'. Test RBP and CSG to 3000 psi. POOH w/TBG.
- 3. RIH with a casing gun and perforate the following Mesa Verde intervals with 2 JSPF, (ref: HLS DSN-SNL log dated 10/14/93):

5822' - 5839'

5854' - 5865'

5877' - 5881'

5959' - 5965'

- 4 Intervals, 143' Gross, 38' Net, 76 Holes, 5894' Midpoint
- 4. RU Service Company. Install Frac Tree. Break down Pt. Lookout perfs with 2% KCL water.

Max Press: 3000 psi

Max Rate: 15 bpm

5. Frac Mesa Verde perfs down CSG with 41,000 gals X-Linked 2% KCL gel water and 112,000 lbs 20/40 Brady sand, tailing in with 24,000 lbs resin coated sand as follows:

15,000 gals 30# pad

4,000 gals 30# @ 2 ppg

8,000 gals 30# @ 4 ppg

8,000 gals 30# @ 6 ppg

3,000 gals 25# @ 8 ppg

3,000 gals 25# @ 8 ppg resin coated

5,800 gals Flush 25# Linear Gel

Max Press: 3000 psi

Rate: 60 bpm

Go to flush immediately after all 8 lb is in; do not allow cleaning of the tub before going to flush. Take ISIP. SI well.

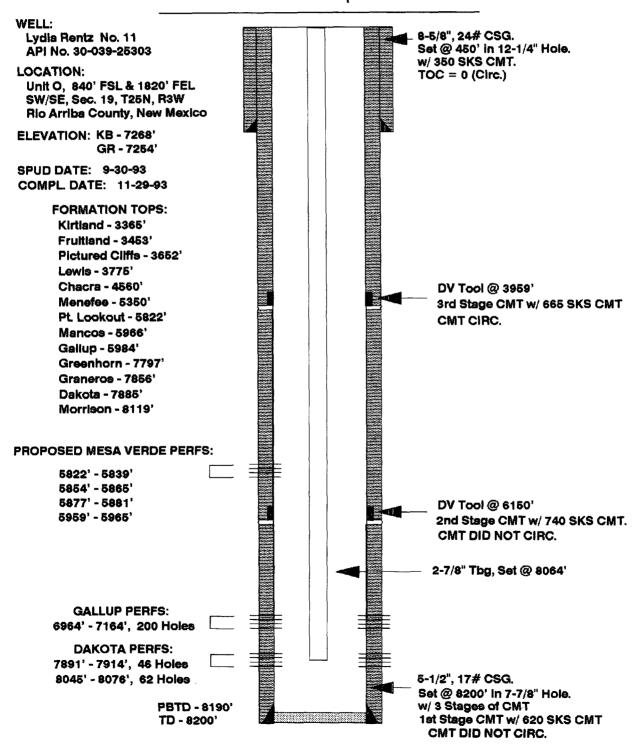
- 6. Shut well in overnight to allow resin coating to cure.
- 7. Flow back until dead. RIH with 2-7/8" TBG to 5894'. Swab/flow test Mesa Verde interval. NDBOP, NUWH, RDMOSU. Obtain shut-in pressure and fluid level.

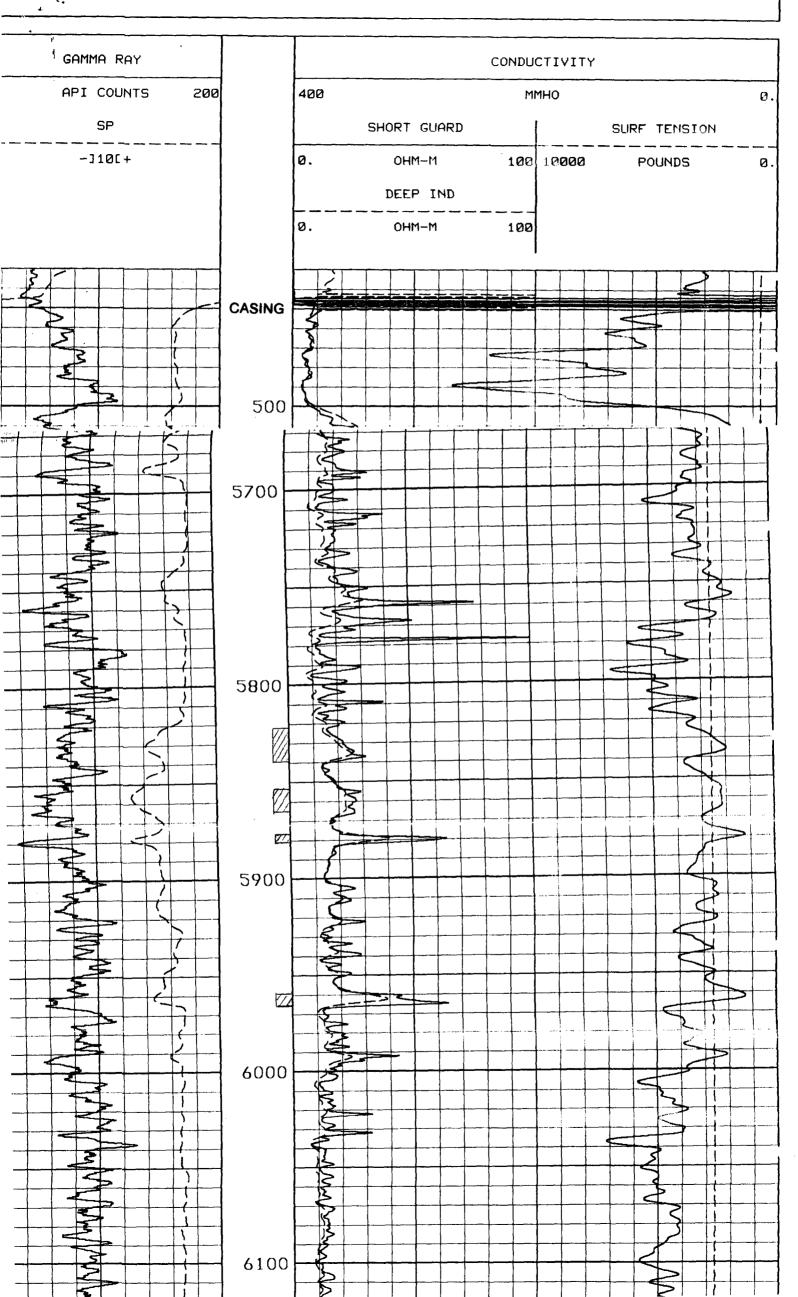
- 8. If <u>successful</u>, notify NMOCD Aztec District office with our intent to commingle. MIRUSU, NDWH, NUBOP. POOH with 2-7/8" TBG. RIH w/ retreiving head on 2-7/8" TBG and POOH w/RBP @6125'. GIH with notched collar, 2-7/8" (1.78" ID) API seating nipple one joint up on 2-3/8" TBG and cleanout to PBTD. POOH. RIH w/rods, pump and 2-7/8" production tubing. NDBOP, NUWH, RDMOSU. Put well on downhole commingled production (MV and GP/DK). Obtain stable commingled oil, gas, and water production rates for allocation formula.
- 9. If Mesa Verde completion is <u>unsuccessful</u>, cement squeeze Mesa Verde. MIRUSU, NDWH, NUBOP. POOH RIH w/ retrieving head on 2-7/8" tubing and POOH with RBP @6125'. GIH with notched collar, 2-7/8" API seating nipple one joint up on 2-7/8" TBG and cleanout tp PBTD. POOH. RIH with Gallup/Dakota production equipment. NDBOP, NUWH, RDMOSU. Return well to G/DK production.

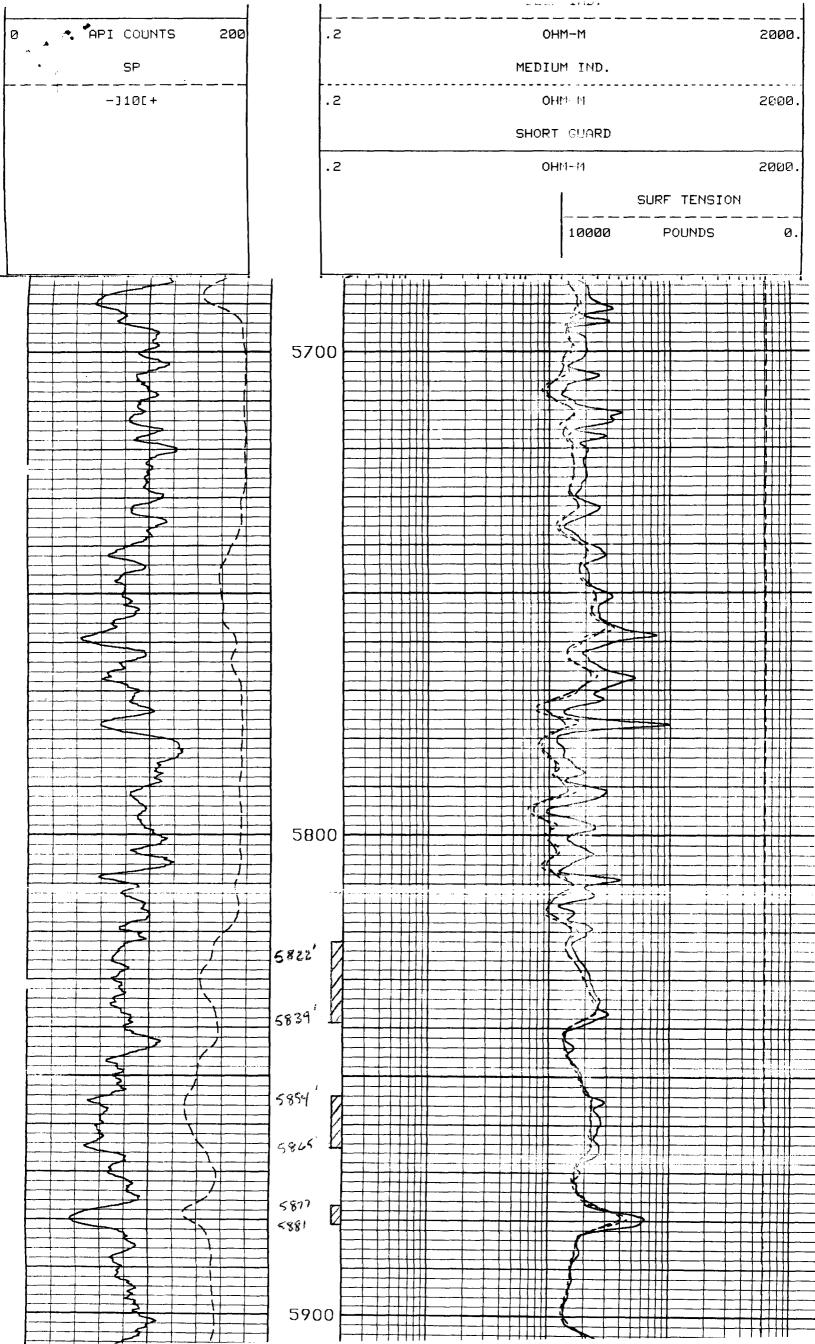


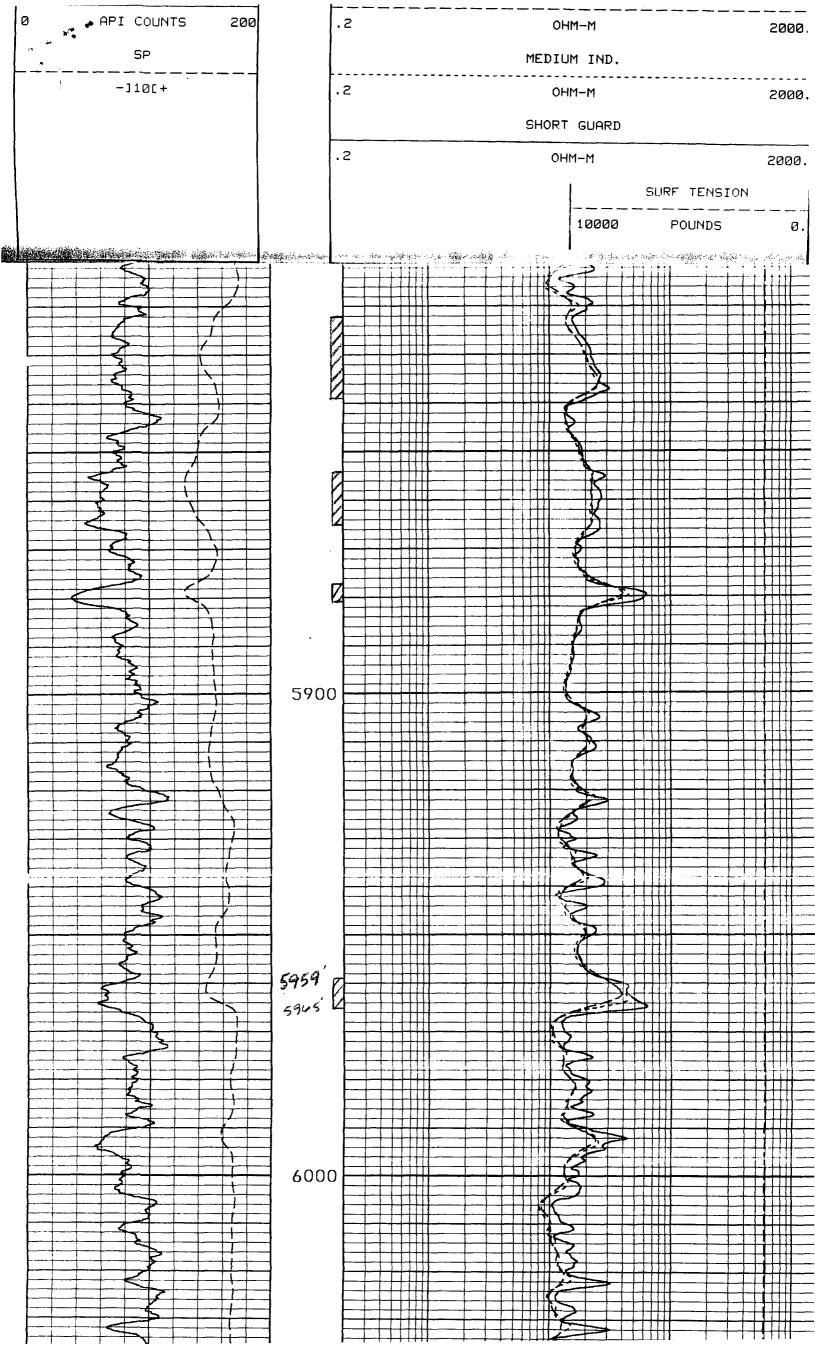
## LYDIA RENTZ No. 11

## **Current Completion**









Microsoft Mail v3.0 IPM.Microsoft Mail.Note

From: Ernie Busch To: David Catanach

Subject: TEXACO EXPL & PROD INC. (DHC)

Date: 1994-05-17 07:15

Priority: R

Message ID: 5A330221

Conversation ID: 5A330221

WELL NAME: LYDIA RENTZ #11 LOCATION: 0-19-25N-03W

RECOMMEND: APPROVAL