



5.23.95
1134

PO Box 700
Hobbs NM 88241-0700
(505) 397-7101

May 1, 1995

New Mexico Oil Conservation Division
2040 South Pacheco
PO Box 6429
Santa Fe, NM 87505

Attn: Mr. David R. Catanach

**RE: Exception of Rule 303-A (permission to Down Hole Commingle)
C. H. Lockhart Federal NCT-1 #11
Wantz Granite Wash and Brunson Drinkard Abo, South
Unit letter D, Section 18, Township 22S, Range 38E
Lea County, New Mexico**

Dear Mr. Catanach:

Texaco Exploration and Production Inc. respectfully requests permission to downhole commingle the Brunson Drinkard Abo, South and the Wantz Granite Wash zones for the C. H. Lockhart Federal NCT-1 #11.

Recently the subject well was recompleted from the Granite Wash to the Drinkard Abo effective February 23, 1995. The Wantz Granite Wash is now isolated by a CIBP set at 7200'. It is proposed to drill out the CIBP, downhole commingle the Granite Wash and Drinkard Abo, and rod pump both zones simultaneously. The outlined method of production will ensure a more complete recovery of hydrocarbons from the two zones. Consequently the productive life of both intervals will be extended thus minimizing waste.

Supporting information (as outlined in Rule 303-D) is included with this application. If additional information is necessary, please contact Darrell Carriger at (505) 397-0426.

Sincerely,

RS Pool

Russell Pool
Hobbs Area Senior Engineer

DJC

Attachments
Chrono

cc: Mr. Jerry Sexton-NMOCD (Hobbs)/offset operators

Exception to Rule 303-A

C. H. Lockhart Federal NCT-1 #11

The informational items below are outlined in Rule 303-D (obtaining approval for DHC).

- 1) Texaco Exploration & Production Inc.
PO Box 730
Hobbs, NM 88241
 - 2) C. H. Lockhart Federal NCT-1 #11
Unit Letter D, Section 18, Township 22S, Range 38E
Brunson Drinkard Abo, South / Wantz Granite Wash
 - 3) Acreage plats (form C-102) for each zone and an offset operator plat are attached to application.
 - 4) A C-116 for each zone is attached.
 - 5) A production curve for the Wantz Granite Wash is attached. Because little production history exists for the newly completed Brunson Drinkard Abo, South formation, a well completion history (see well bore diagram) is also attached which includes a prognostication of future production from this zone.
 - 6) Estimated Bottomhole pressure for each zone:**
Wantz Granite Wash: 300 psi
Brunson Drinkard Abo, South 1270 psi
- **Texaco will maintain the commingled zones in a pumped off condition to eliminate "thieving".**
- 7) Texaco has surface commingled production from the two zones previously and encountered no operational difficulties as a result of mixing incompatible fluids.
 - 8) The C. H. Lockhart NCT-1 Federal #11 produced solely from the Wantz Granite Wash interval in 1994. At this time all volumes produced from the C. H. Lockhart lease were surface commingled into a common lease battery. This surface commingled production included hydrocarbons from the Granite Wash, Blinebry, Tubb, Paddock, and Drinkard Abo formations. The 1994 average value of the crude sold from this battery was \$16.35/BBL.

Effective 2/23/95 well #11 was recompleted from the Wantz Granite Wash to the Brunson Drinkard Abo, South zone. The Wantz Granite Wash was isolated by CIBP set at 7200'. It is now proposed to drill out the CIBP and downhole commingle production from the two zones. If commingling is approved, an estimated additional 26 BBLs/Day will be realized (from the Wantz Granite Wash).

Based on the 1994 yearly average value of \$16.35/BBL of produced crude from this lease, downhole commingling of this well will increase daily revenues by \$425.10.

9)	<u>Pool</u>	<u>OIL (BBL/DAY)</u>	<u>GAS (MCF/DAY)</u>	<u>WATER (BBL/DAY)</u>
	Wantz Granite Wash	26	33	5
	Brunson Drinkard Abo, South	approx. 21	40	5
	TOTAL	47	73	10

Production should be allocated by the following percentages:

<u>Pool</u>	<u>OIL (%)</u>	<u>GAS (%)</u>	<u>WATER (%)</u>
Wantz Granite Wash	55.32%	45.21%	50%
Brunson Drinkard Abo, South	44.68%	54.79%	50%
TOTAL	100%	100%	100%

DISTRICT I

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

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30 025 30739	² Pool Code 07900	³ Pool Name BRUNSON DRINKARD ABO, SOUTH
⁴ Property Code 10986	⁵ Property Name LOCKHART, C. H. FEDERAL NCT-1	
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁶ Well No. 11
		⁹ Elevation 3341' GR

¹⁰ Surface Location

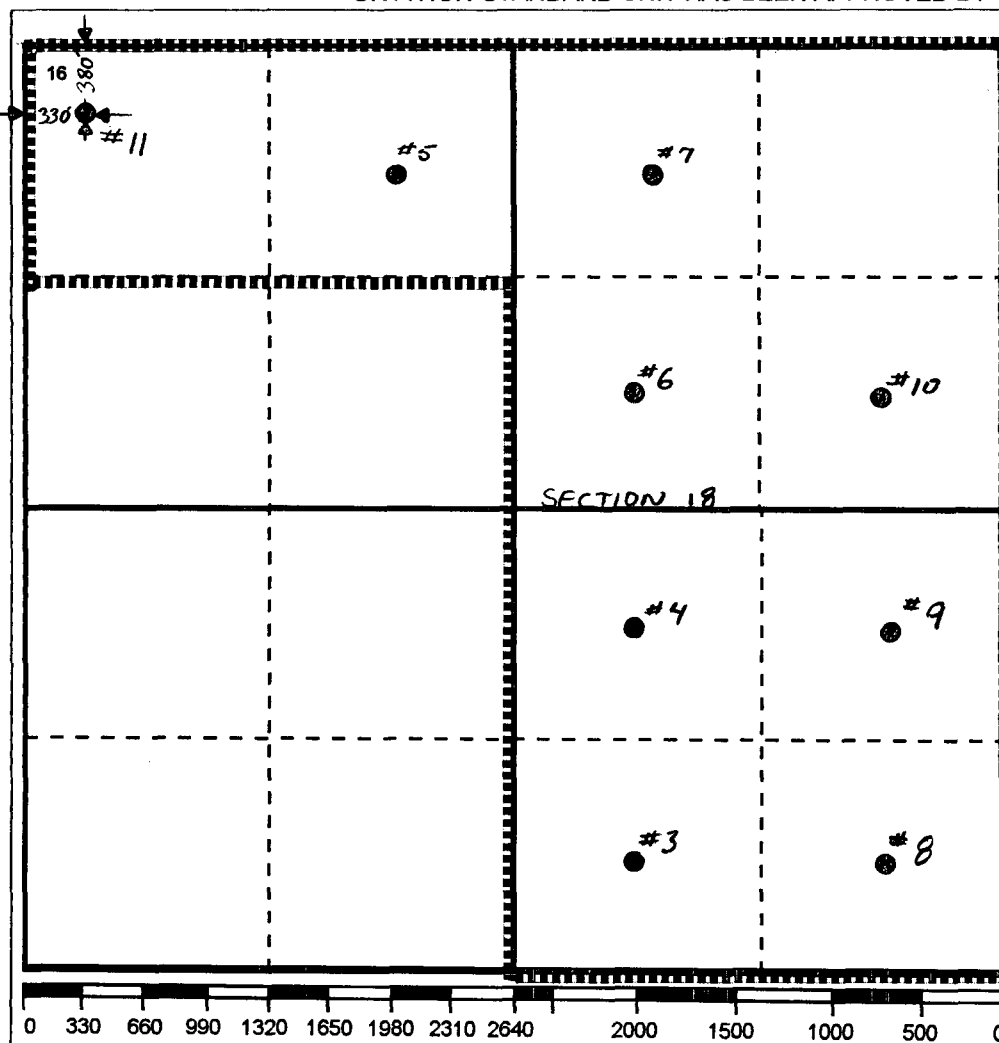
UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
D	18	22S	38E		380	NORTH	330	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County

¹² Dedicated Acres 40	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 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

Darrell J. Carriger

Position

Engineering Assistant

Date

4/18/95

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of

Professional Surveyor

Certificate No.

DISTRICT I

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

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

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☐ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30 025 30739	² Pool Code 62730	³ Pool Name Wantz Granite Wash
⁴ Property Code 10986	⁵ Property Name Lockhart, C. H. NCT-1 Federal	⁶ Well No. 11
⁷ OGRID Number 022351	⁸ Operator Name TEXACO EXPLORATION & PRODUCTION INC.	⁹ Elevation 3341'-GR

¹⁰ Surface Location

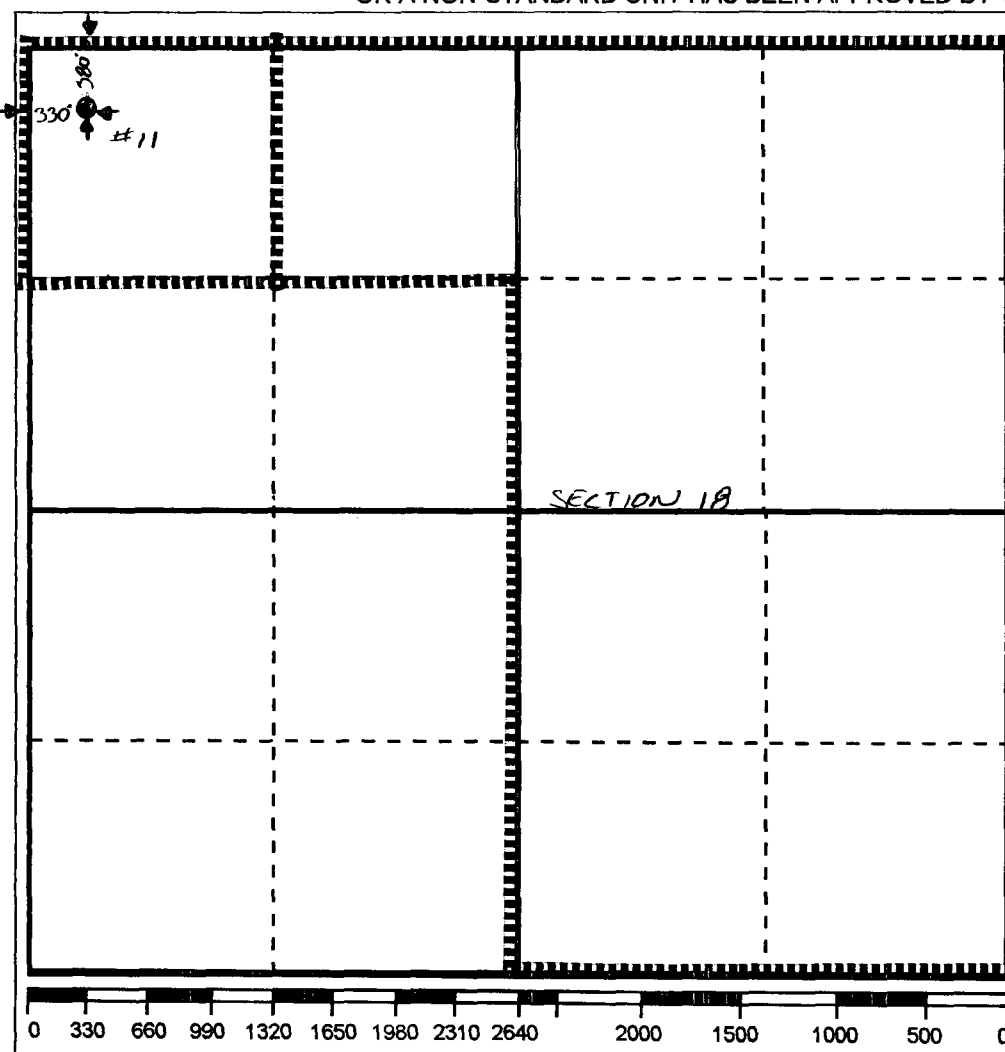
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D	18	22S	38E		380	NORTH	330	WEST	LEA

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Date Surveyed

Signature & Seal of

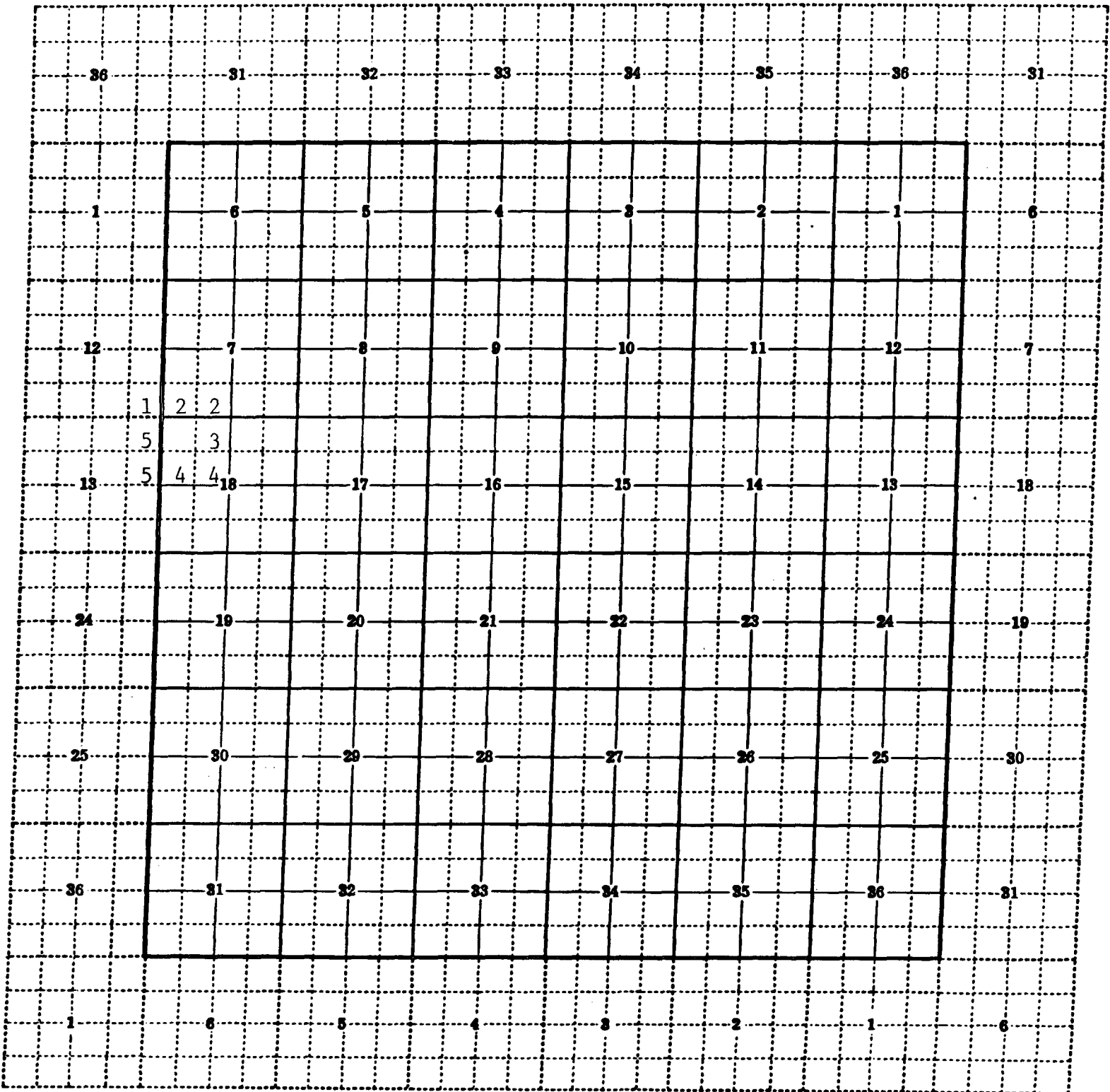
Professional Surveyor

Certificate No.

T
22
S



OFFSET OPERATOR OWNERSHIP
C. H. LOCKHART FEDERAL NCT-1 WELL #11
(DRINKARD, ABO, GRANITE WASH FORMATIONS)
NW/4 NW/4 OF SECTION 18
T-22-S, R-38-E, NMPM
LEA COUNTY, NEW MEXICO
APRIL 25, 1995



OFFSET OPERATOR OWNERSHIP
C. H. LOCKHART FEDERAL NCT-1 WELL #11
(DRINKARD, ABO, GRANITE WASH FORMATIONS)
NW/4 NW/4 OF SECTION 18
T-22-S, R-38-E, NMPM
LEA COUNTY, NEW MEXICO
APRIL 25, 1995

TRACT

OPERATOR

- | | |
|---|--|
| 1 | Zachary Oil Operating Company
P. O. Box 1969
Eunice, New Mexico 88231 |
| 2 | John H. Hendrix Corporation
223 W. Wall, Suite 525
Midland, Texas 79701 |
| 3 | Texaco Exploration and Production Inc.
P. O. Box 2100
Denver, Colorado 80201 |
| 4 | Fina Oil & Chemical Company (Surface to 7,250')
P. O. Box 2990
Midland, Texas 79702

Marathon Oil Company (Below 7,250')
P. O. Box 552
Midland, Texas 79702 |
| 5 | Exxon Company USA
P. O. Box 1600
Midland, Texas 79702 |

Offset Operators:

Please indicate your approval for our request as detailed in the attached package by signing the waiver form below. Please return the signed waiver in the enclosed self-addressed envelope.

Thank you for your cooperation in this matter.

WAIVER TO OBJECTION

TEXACO EXPLORATION AND PRODUCTION

**Application for
Exception to Rule 303-A
Downhole Commingle
C. H. Lockhart NCT-1 #11
Wantz Granite Wash and Brunson Drinkard Abo, South
Unit letter D, Section 18, Township 22S, Range 38E
Lea County, New Mexico**

I/We do hereby waive any objection to Texaco Exploration and Production Inc.'s request for NMOCD administrative approval to commingle the Wantz Granite Wash and Brunson Drinkard Abo, South zones for the above captioned well.

Signed: _____
Title: _____
Company: _____
Date: _____

Z 106 611 731

Receipt for Certified Mail

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

Sent to	
EXXON COMPANY USA	
Street and No.	P.O., State and ZIP Code
20. BOX 1600	MIDLAND, TX 79702
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 106 611 735

Receipt for Certified Mail

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

PS Form 3800, March 1993

Sent to	
ZACHRY OIL OPERATING CO	
Street and No.	P.O., State and ZIP Code
P.O. BOX 1969	ELGIN, TX 78821
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 106 611 734

Receipt for Certified Mail

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

PS Form 3800, March 1993

Sent to	
5044 N. HENDERSON CORP.	
Street and No.	P.O., State and ZIP Code
225 W. 5TH, SUITE 525	MIDLAND, TX 79701
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 106 611 733

Receipt for Certified Mail

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



Sent to	
FINA OIL & CHEMICAL CO	
Street and No.	P.O., State and ZIP Code
P.O. BOX 2990	MIDLAND, TX 79702
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

Z 106 611 732

Receipt for Certified Mail

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



Sent to	
MARATHON OIL CO	
Street and No.	P.O., State and ZIP Code
BOX 552	MIDLAND, TX 79702
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

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

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

Engineering Assistant

397-0426

Desata/Nichols 10-83 ver 2.0

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

DISTRICT II
P.O. Box 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

GAS - OIL RATIO TEST

Operator TEXACO EXPLORATION & PRODUCTION INC.		Pool Wantz Granite Wash		County Lea											
Address P.O. BOX 730, HOBBS, NM 88240		TYPE OF TEST - (X)		Scheduled <input type="checkbox"/> Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BBL.	
		U	S	T						R	WATER BBL.S.	GRAV. OIL BBL.S.	OIL BBL.S.		GAS M.C.F.
C. H. Lockhart NCT-1	11	D	18	22S	38E	12/10/94	N/A		187	24	4	37	26	27	1038
(This was the last test in the Wantz Granite Wash formation before the well was recompleted to the Brunson Drinkard Abo, South)															

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that the well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 deg. F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature

Darrell J. Carriger

Engineering Assistant

Printed Name and Title

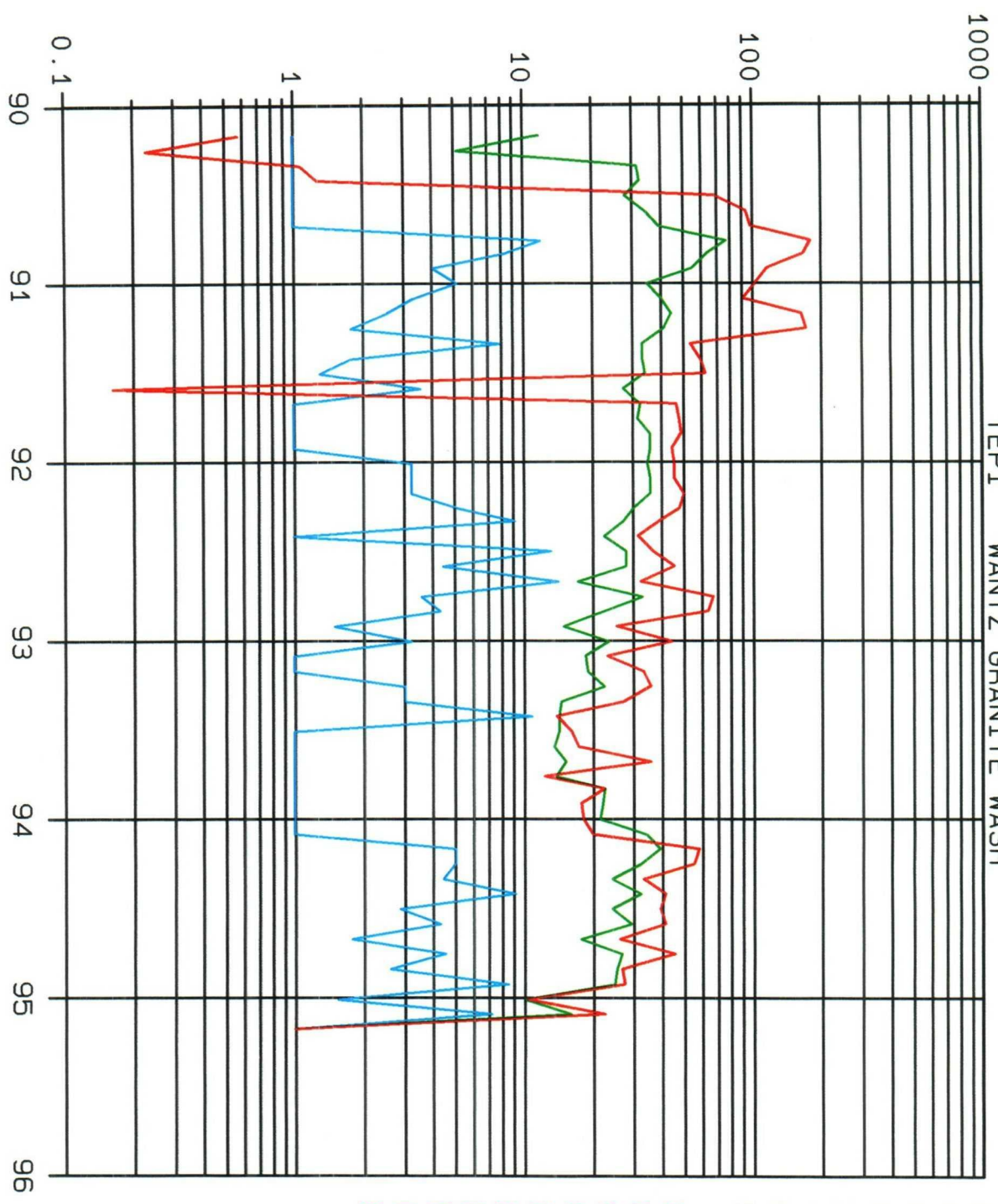
4/19/95

397-0426

DATE

Telephone No.

LOCKHART, C. H. FEDERAL NCT-1 11 WANTZ GRANITE WASH TEPI WANTZ GRANITE WASH



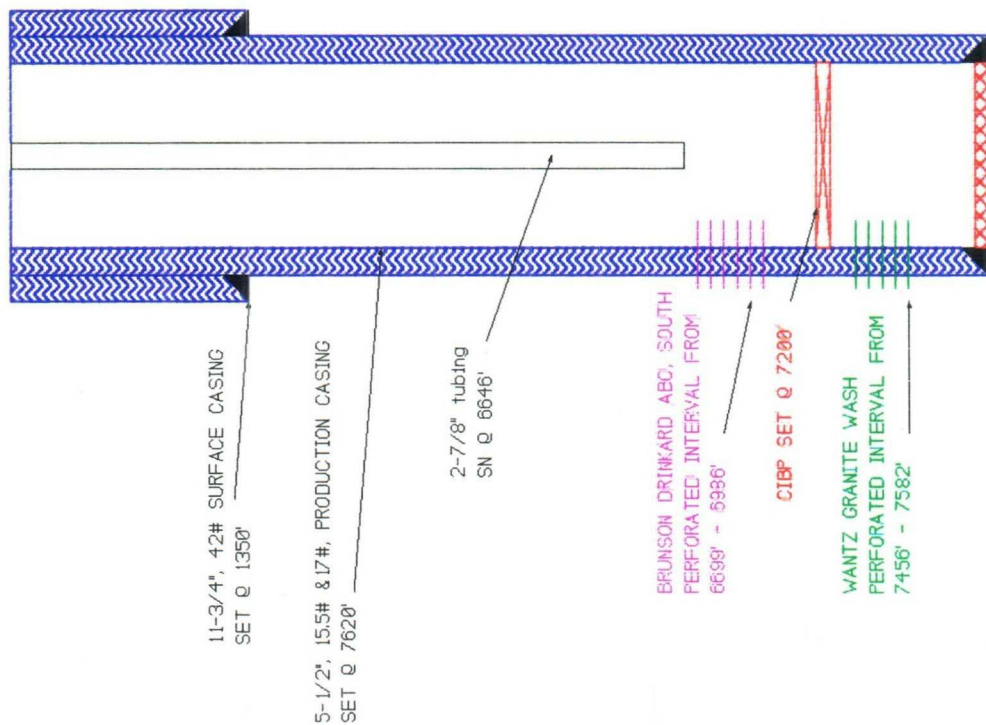
BOPD BWPD MCFPD

YEARS

LEASE DATA
LSE 010986
FLD 62730
OPER TEPI
ZONE 62730
--
COUNTY 25
STATE 30

STATUS 2-95
CO 52 MB0
CG 88 MMCF
CW 6 MBW
BOPD 0
BWPD 0
MCFPD 0
WELLS 1
CI 0 MBWI
BWIPD 0

C. H. LOCKHART NCT-1 #11



TD: 7610'
NOT TO SCALE

Legal location: UL D, Section 18, Township 22S, Range 38E

Tubing Information: 2-7/8" with seating nipple @ 6646'

Rods and Pump: 200' - 7/8", 2250' - 3/4", 2025' - 7/8", 1900' - 1" pump size - 2-1/2" x 1-1/2" x 24'

Pumping Unit: 640

Well History

2/9/90: Original Completion into th Wantz Granite Wash Stimulated with 2000 gallons 15% NEFE
IP: 33 BO, 35 MCF, 3 BW (24 Hours)

8/29/90: Fracture treated with 90000 gallons gel and 250000# 20/40 sand.
IP: 162 BO, 59 MCF, 85 BW (24 Hours)

12/19/94: Recompleted to Brunson Drinkard Abo, South zone. Acid treated with 2000 gallons 15% NEFE
Fracture treated with 12000# 16/30 sand + 24528 gallons gel.
Acid treated again with 5000 gallons 15% NEFE
Fracture treated again with 20000# 12/20 sand plus 31704 gallons 30# gel.
IP: 21 BO, 40 MCF, 5 BW (24 Hours)