



OIL CONSERVATION DIVISION
RECEIVED

DALLAS DIVISION

'91 JUN 20 AM 9 12

June 18, 1991

Division Director
New Mexico Oil Conservation Commission
State Land Office Building
Santa Fe, New Mexico 87501

RE: Request for Downhole
Commingling Permit
Warlick "A" No. 1
NE SE Section 19-T21S-R33E
Lea County, New Mexico
Blinebry Field

To Whom It May Concern:

Please find below the information required as application for a permit for downhole commingling regarding the subject well. It is our desire to commingle all four zones.

Rule 303-C

a) Name and Address of Operator:

Graham Royalty, Ltd.
5429 LBJ Fwy, Suite 550
Dallas, Texas 75240

b) Lease name, well number, and location; name of pools to be commingled.

Warlick "A" No. 1
FSL, FEL, Section 19-T21S-R37E
Lea County, New Mexico

Eumont Yates	3,385' - 3,636'
Penrose Skelly	3,756' - 3,796'
Blinebry	5,588' - 5,942'
Drinkard	6,594' - 6,664'

c) Plat of area showing the acreage dedicated to the well and the ownership of all offsetting leases.

See Attachment No. 1.

Request for Downhole Commingling Permit

Warlick "A" No. 1

June 18, 1991

Page 2

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

See Attachment No. 2.

- e) A production decline curve from each zone for at least a period of one year.

See Attachment No. 3.

- f) Estimated bottomhole pressure for each artificially lifted zone:

Penrose-Skelly	40 psig
Drinkard	40 psig

- g) A description of the field characteristics of each zone showing that the fluids will not be incompatible in the wellbore.

The Warlick "A" No. 1 has and will continue to be operated as a quadruple completion. The produced fluids from the four zones are now commingled in Graham Royalty's State DC lease (shown on map) offsetting this lease to the northwest authorized by Order PC-435 for Amerada Hess Corporation, March 1972. As well as the Warlick No. 2 well on the same lease (Order No.DHC-641).

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

This commingling order will not change the values of the produced streams as all producing operations will remain unchanged.

- i) 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.

	% Allocation		
	<u>Oil</u>	<u>Gas</u>	<u>Water</u>
Penrose-Skelly	12	21	80
Blinbry	0	0	0
Eumont Yates	0	35	0
Drinkard	88	44	20

Request for Downhole Commingling Permit
Warlick "A" No. 1
June 18, 1991
Page 3

Attached Forms C-116 were used to determine the above factors.

- j) A statement that all offset operators and, in the case of a well on Federal Land, the United States Geological Survey, have been notified in writing of the proposed commingling.

Offset operators have been notified.

- k) A statement that the ownerships of the zones to be commingled are common including the working interest, royalty and overriding royalty.

The ownerships of oil and gas produced from all zones to be commingled is common as to royalty, overriding royalty and working interests.

Sincerely,

GRAHAM ROYALTY, LTD.



Jason C. Sizemore

Senior Petroleum Engineer

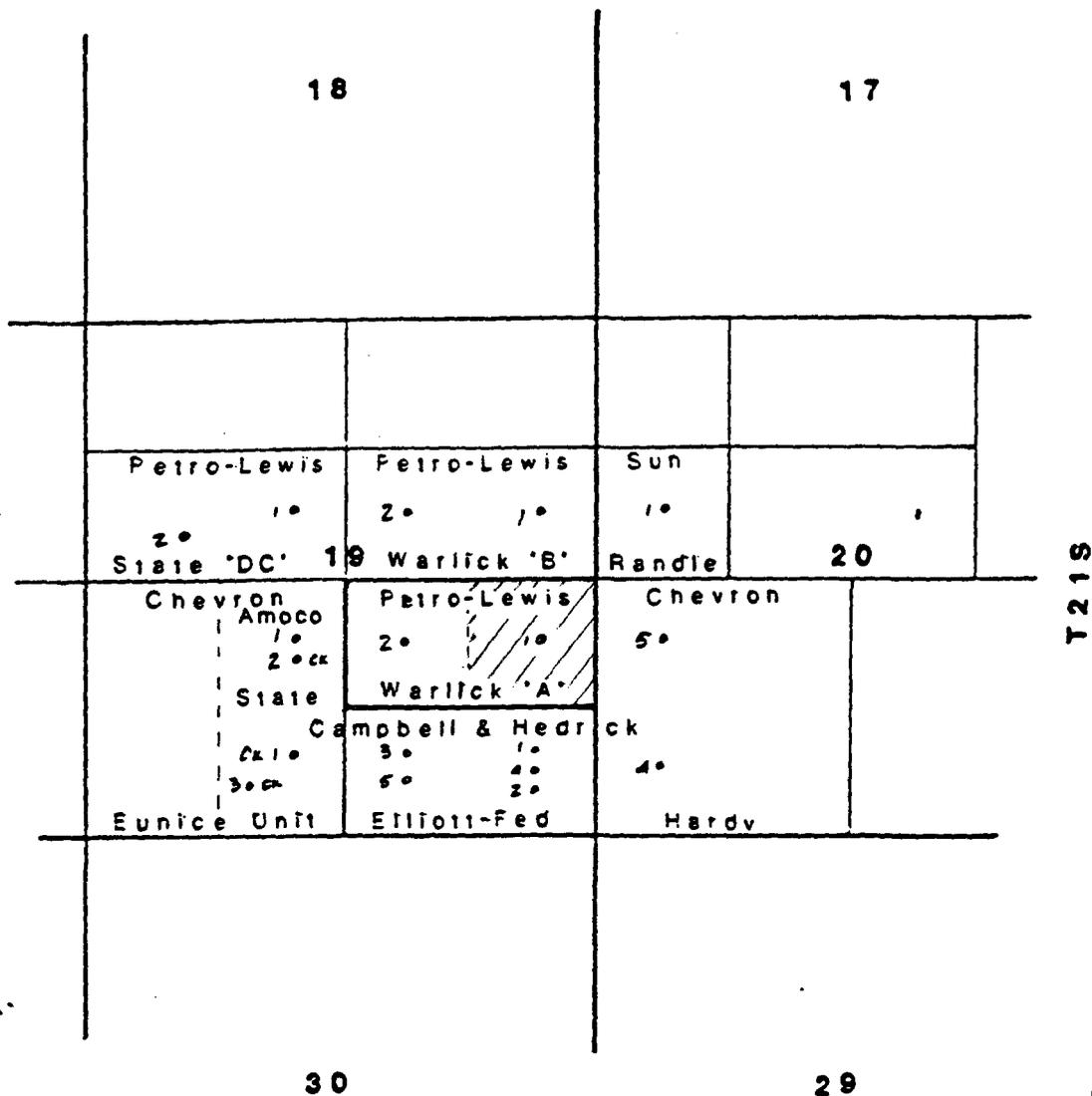
JCS/ca
a:war-a#1.com

Attachments



R36E

R37E



RE: APPLICATION FOR DOWNHOLE COMINGLING

The acreage to be allocated production from the Petro-Lewis #2 Warlick 'A' is the NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 19, T21S-R37E, N.M.P.M., Lea County, New Mexico.

PETRO-LEWIS CORPORATION	
OFFSET OPERATORS	
PETRO-LEWIS	
WARLICK 'A' LEASE	
LEA CO., NM	
1" = 2000'	

Submit 2 copies to Appropriate District Office:
 DISTRICT I
 P.O. Box 1960, 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

Form C-116
 Revised 1/1/89

GAS - OIL RATIO TEST

Operator Graham Royalty, Ltd.		Pool Penrose - Skelly		County Lea	
Address 5429 LBJ Fwy, Suite 550 Dallas, TX 75240		TYPE OF TEST - (X) <input checked="" type="checkbox"/> P <input type="checkbox"/> S <input type="checkbox"/> U		Completion <input type="checkbox"/> Special <input type="checkbox"/>	
LEASE NAME L. G. Warlick "A"	WELL NO. 1	LOCATION U S T R I 19 21S 37E	DATE OF TEST 5-15-91	CHOKE SIZE 2	TBQ. PRESS. 20
				DAILY ALLOW. ABLE M	LENGTH OF TEST HOURS 24
					WATER BRLS. 4
					PROD. DURING TEST GRAV. OIL BRLS. 38
					OIL BRLS. 1
					GAS M.C.F. 28
					GAS - OIL RATIO CU/FT/BRL. 9333

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 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° 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: Jason C. Sizemore
 Printed name and title: Jason C. Sizemore, Sr. Petroleum Engineer
 Date: 6/14/91
 Telephone No.: 214/991-3344

Submit 2 copies to Appropriate District Office.

DISTRICT I
P.O. Box 1960, 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

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

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

GAS - OIL RATIO TEST

Operator: Graham Royalty, Ltd. Pool: Eumont-Yates County: Lea

Address: 5429 LBJ Fwy, Suite 550 Dallas, TX 75240 TYPE OF TEST: (X) Scheduled Completion Special

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	% FLS	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.	OIL BBL.S.	GAS M.C.F.		
L. G. Warlick "A"	1	I	19	21S	37E	5-15-91	F	20/64	30	M	24	0	-	0	45	-

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 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° 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: *Jason C. Sizemore*
Printed name and title: Jason C. Sizemore, Sr. Petroleum Engineer
Date: 6/14/91 Telephone No. 214/991-3344

Submit 2 copies to Appropriate District Office.

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

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

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

GAS - OIL RATIO TEST

Operator Graham Royalty, Ltd.		Pool Drinkard		County Lea												
Address 5429 LBJ Fwy, Suite 550 Dallas, TX 75240		TYPE OF TEST - (X) <input checked="" type="checkbox"/> P		Scheduled <input type="checkbox"/> Special <input type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	% FELS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	Completion			GAS - OIL RATIO CU./FT./BBL.		
		U	S	T							R	WATER BBL.	PROD. DURING TEST GRAV. OIL		OIL BBL.	GAS M.C.F.
L. G. Warlick "A"	1	I	19	21S	37E	5-15-91	P	2"	20	M	24	1	35.4	7	57	8142

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 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° 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

Jason C. Sizemore, Sr. Petroleum Engineer

Printed name and title

6/14/91

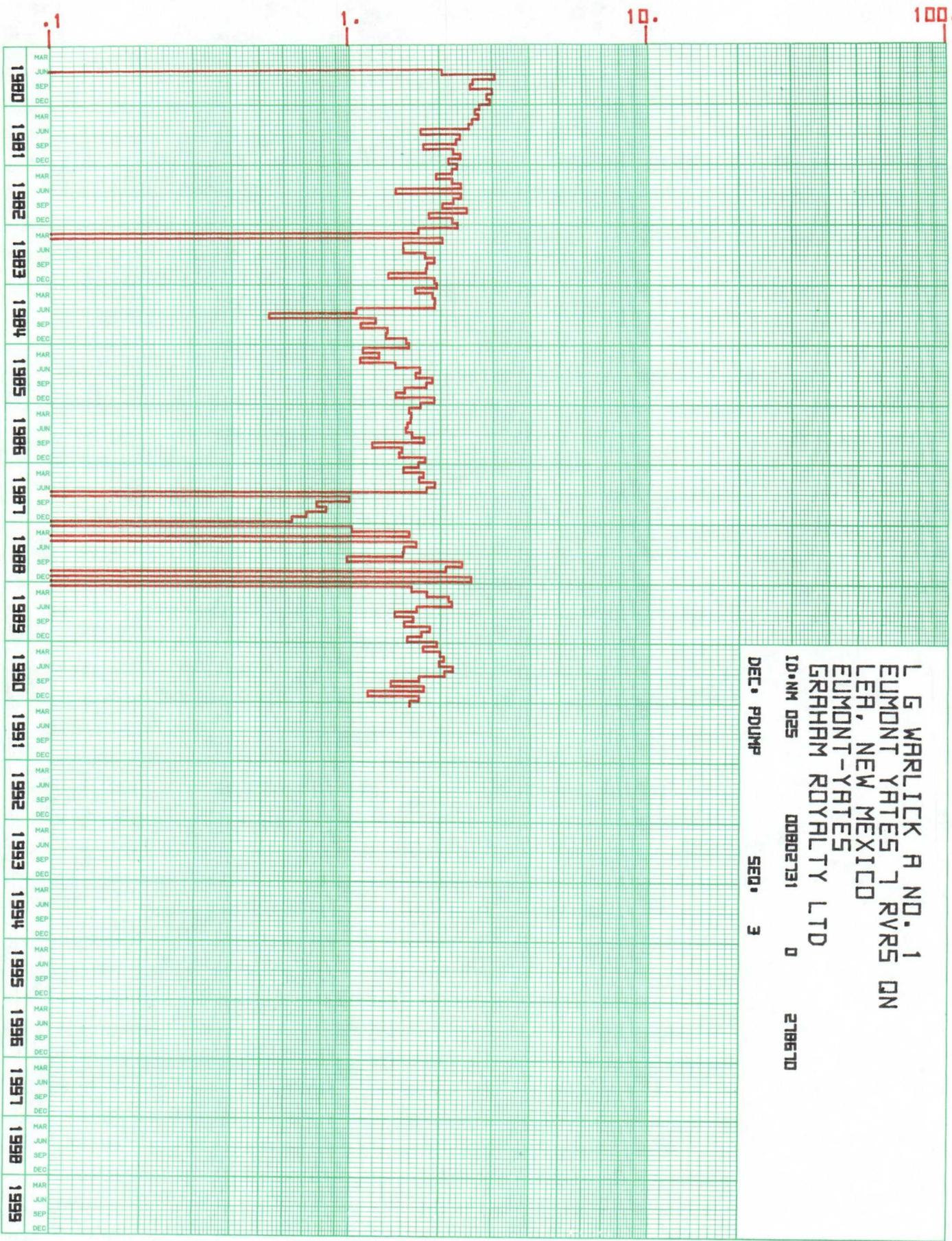
214/991-3344

Date

Telephone No.

IPGRAF PLOT

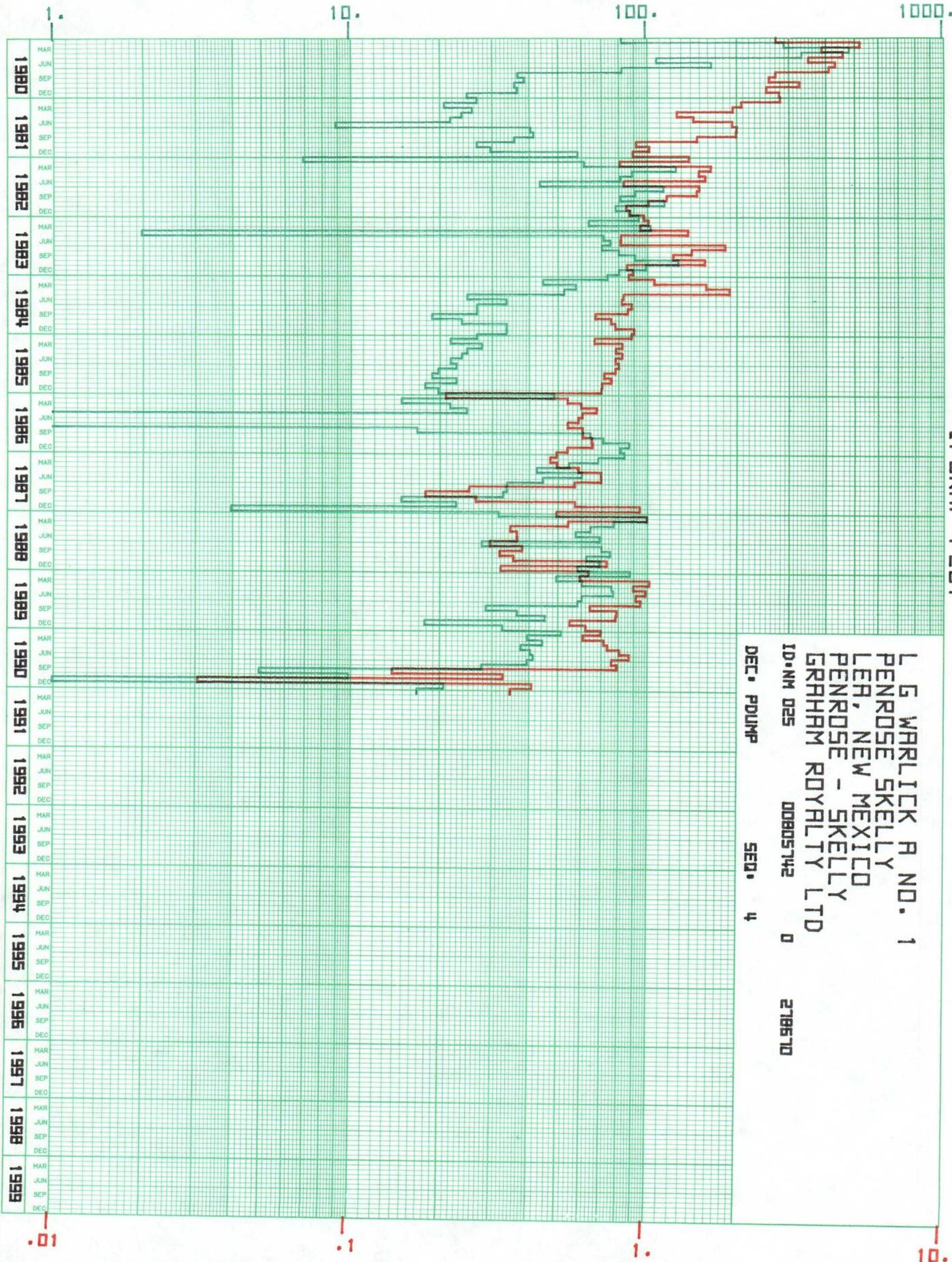
L G WRRLICK P NO. 1
 EUMONT YATES 7 RVRS ON
 LER, NEW MEXICO
 EUMONT-YATES
 GRHRM ROYALTY LTD
 ID-NM 025 00802731 0 21867D
 DEC. PDUMP SEQ. 3



GRS PRODUCTION in MMCF/MON

IPGRPF PLOT

L G WARLICK A NO. 1
 PENROSE SKELLY
 LER, NEW MEXICO
 PENROSE - SKELLY
 GRAHAM ROYALTY LTD
 ID-NM 025 00805742 0 218670
 DEC PDUMP SED 4

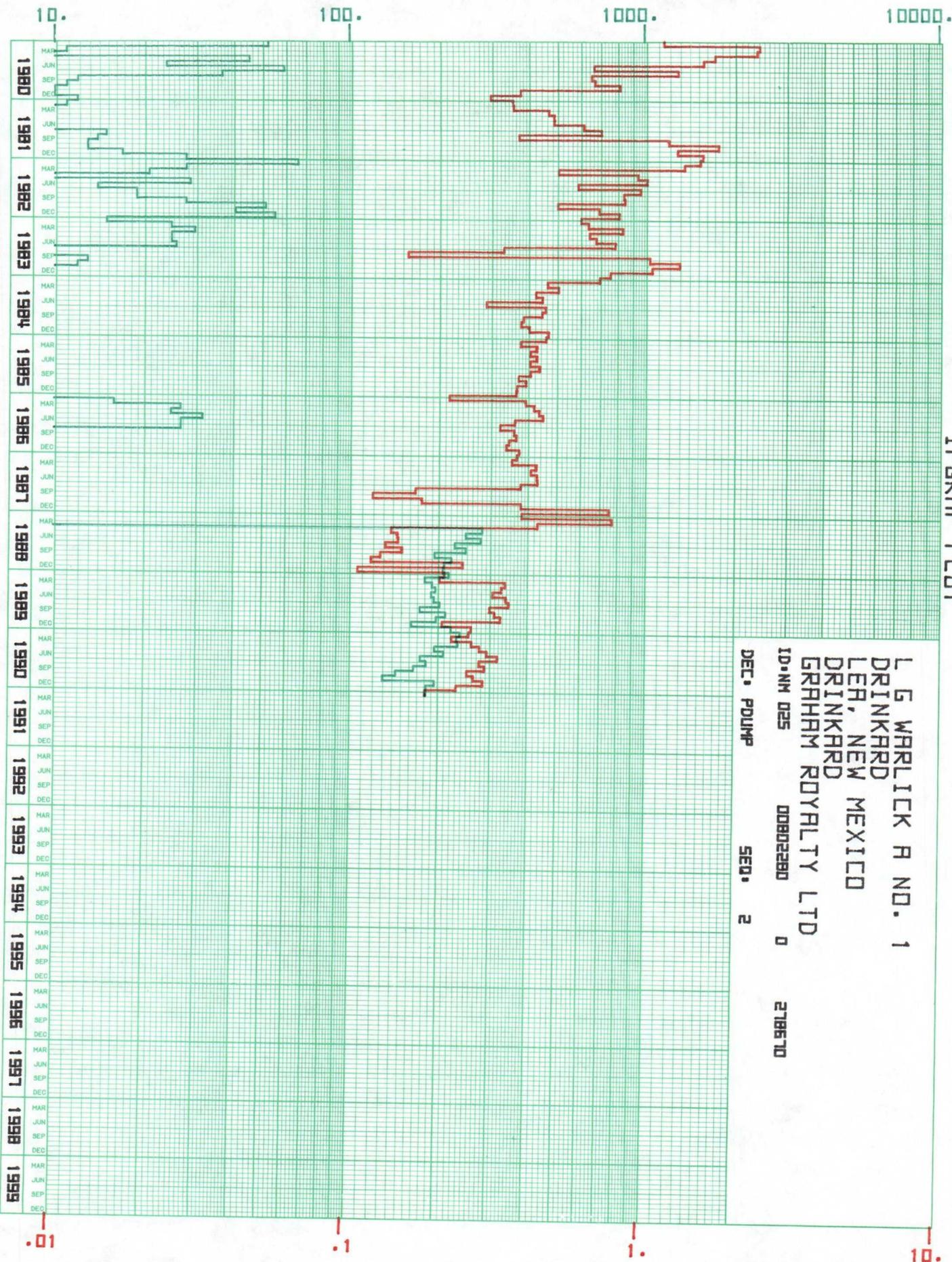


OIL PRODUCTION IN BBL/MON

GAS PRODUCTION IN MMCF/MON

IPGRHF PLOT

L G WRRICK R NO. 1
 DRINKARD
 LEH, NEW MEXICO
 DRINKARD
 GRHHM ROYALTY LTD
 ID-NM 025 00802280 0 218670
 DEC. PUMP SED. 2



OIL PRODUCTION in BBL/MON

GAS PRODUCTION in MCF/MON

June 17, 1991

OFFSET OPERATORS
(See Attached List)

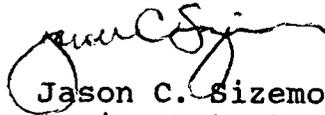
Re: Request for Downhole Commingling Permit
Rule 303C
Warlick "A" No. 1
NE SE Section 19-T21S-R37E
Lea County, New Mexico

To Whom It May Concern:

This letter will serve as notification of our application to the New Mexico Oil Conservation Commission for approval of the subject permit. As an offset operator, we request your waiver of objection by signing below and returning one copy to the undersigned and one to the New Mexico Oil Conservation Commission. Thank you for your cooperation.

Respectfully,

GRAHAM ROYALTY, LTD.



Jason C. Sizemore
Senior Petroleum Engineer

JCS/ca
a:offsetop.wal

Attachment

I do () do not () object to the commingling request for this well.

Signed _____

Date _____

Company _____

Amoco Production Company
Attention: Mr. Brian Taylor
P. O. Box 3092
Houston, TX 77253

Chevron, USA, Inc,
Attention: Production Manager P. O. Box 1150
Midland, TX 79702

Oryx Energy Company
Attention: Production Manager
P. O. Box 1861
Midland, TX 79702-1861

Campbell and Hedrick
c/o Campbell Estate Partnership
2003 Country Club
Midland, TX 79701

Campbell and Hedrick
c/o O. F. Hedrick Estate
1207 Community Lane
Midland, TX 79701

GRAHAM

OIL CONSERVATION COMMISSION
RECEIVED

RECEIVED
6-21-91
AUB

'91 JUN 28 DALLAS DIVISION
PM 5 15

June 17, 1991

DHC-812

OFFSET OPERATORS
(See Attached List)

Re: Request for Downhole Commingling Permit
Rule 303C
Warlick "A" No. 1
NE SE Section 19-T21S-R37E
Lea County, New Mexico

To Whom It May Concern:

This letter will serve as notification of our application to the New Mexico Oil Conservation Commission for approval of the subject permit. As an offset operator, we request your waiver of objection by signing below and returning one copy to the undersigned and one to the New Mexico Oil Conservation Commission. Thank you for your cooperation.

Respectfully,

GRAHAM ROYALTY, LTD.



Jason C. Sizemore
Senior Petroleum Engineer

JCS/ca
a:offsetop.wal

Attachment

I do () do not (X) object to the commingling request for this well.

Signed Alan H. Bohling

Date June 25, 1991

Company Chevron U.S.A. Inc.