



NEW MEXICO OIL CONSERVATION DIVISION
700

1990 DEC 27 AM 9 53

DALLAS DIVISION

December 20, 1990

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. 2
NW 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. 2
1,980' FSL, 1,980' FEL, Section 19-T21S-R37E
Lea County, New Mexico

Penrose Skelly	3,756' - 3,805'
Paddock	5,162' - 5,174'
Blinebry	5,654' - 5,925'
Drinkard	6,599' - 6,643'

Initial quadruple completion - Order No. R2300
Commingling for Paddock/Blinebry/Drinkard - Administra-
tive Order No. DHC - 641.

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. 2
Blinebry Field
Page Two

- 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
Paddock	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. 2 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. The produced fluids on this lease are presently commingled on surface.

- 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	50	56	41
Blinebry	0	18	0
Paddock	35	16	41
Drinkard	15	10	18

Request for Downhole
Commingling Permit
Warlick "A" No. 2
Blinebry Field
Page Three

Attached Forms C-116 were used in combination with previously approved allocation factors for the Blinebry/Paddock/Drinkard which were 0/70/30, respectively for oil and 41/36/23, respectively for gas.

- 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

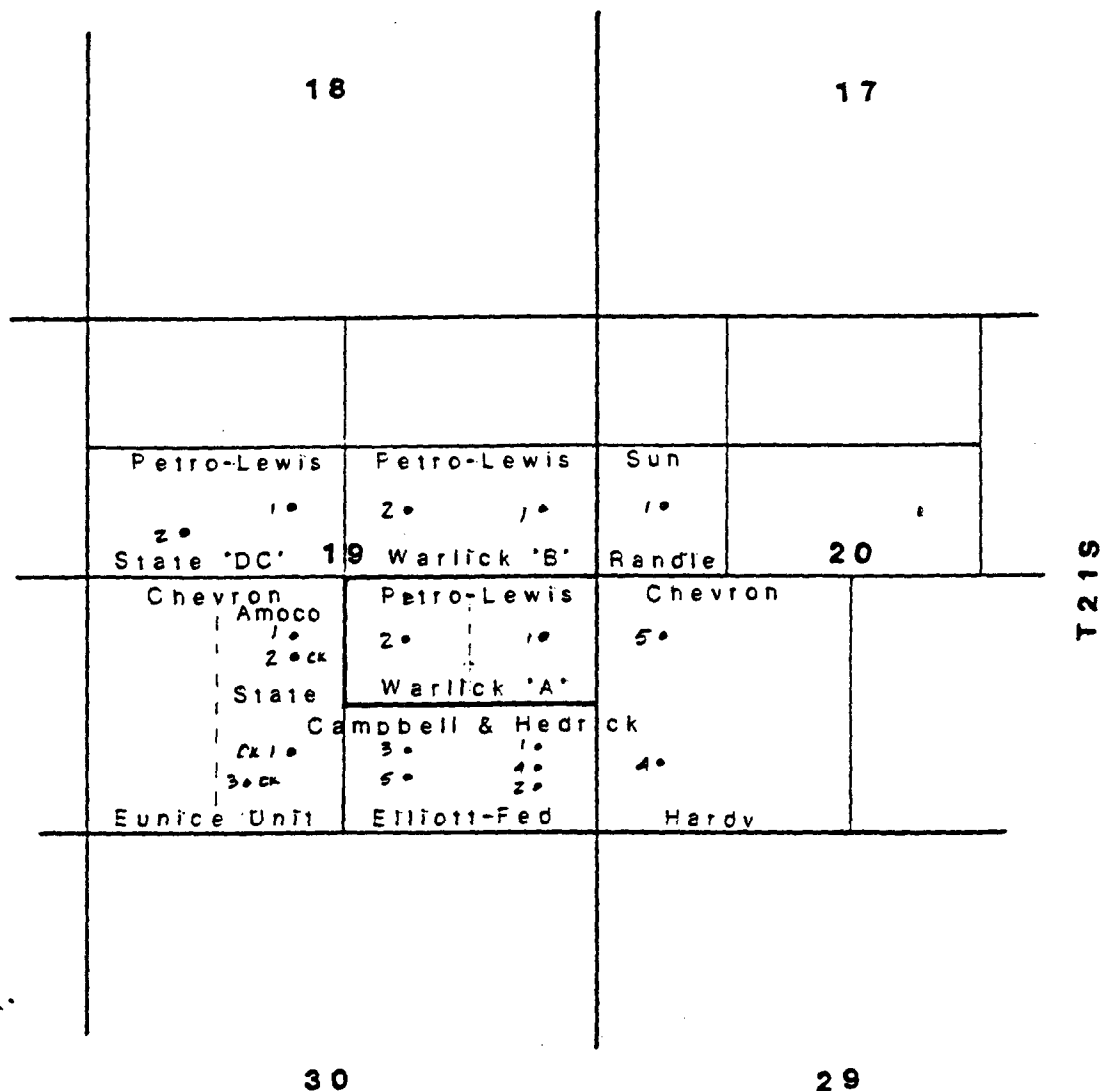
JCS/ca

Attachments



R 36 E

R 37 E



RE: APPLICATION FOR DOWNHOLE COMMINGLING

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 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

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator Graham Royalty, Ltd.		Pool Paddock		County Lea											
Address 5429 LBJ Freeway, Suite 550		Dallas, TX 75240		TYPE OF TEST - (X)											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	Completion			Special		
		U	S	T						R	WATER BBL'S.	PROD. GRAV. OIL		OIL BBL'S.	GAS MCF.
L. G. Warlick 'A'	2	2J	19	21S	37E	12-5-90	P	Open	22	24	6	38.6	4	16	4000

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

12/20/90

Date

(214) 991-3344

Telephone No.

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

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 Blinebry		County Lea											
Address 5429 LBJ Freeway, Suite 550 Dallas, TX 75240		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input 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		OIL BBL.S.	GAS M.C.F.
L. G. Warlick 'A'	2	2J	19	21S	37E	12-4-90	F	20/64	22	24	0	-	0	18	N.A.

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

12/20/90 (214) 991-3344

Date

Telephone No.

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
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 Freeway, Suite 550 Dallas, TX 75240		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input 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		OIL BBL.S.	GAS M.C.F.	
L. G. Warlick 'A'	2	2J	19	21S	37E	12-3-90	P	Open	20	M	24	6	39	6	56	8333

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

12/20/90 (214) 991-3344

Date

Telephone No.

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

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 Drinkard		County Lea											
Address 5429 LBJ Freeway, Suite 550 Dallas, TX 75240		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input 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		OIL BBL.S.	GAS M.C.F.
L. G. Warlick 'A'	2	2J	19	21S	37E	12-6-90	F	20/64	22	24	2.7	38.6	2	10	5000

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

Date

12/20/90 (214) 991-3344

Telephone No.

IPGRAPH PLOT

L G WARLICK A NO. 2
 DRINKARD
 LER, NEW MEXICO

GRAHAM ROYALTY LTD

ID-NM 025

8022800

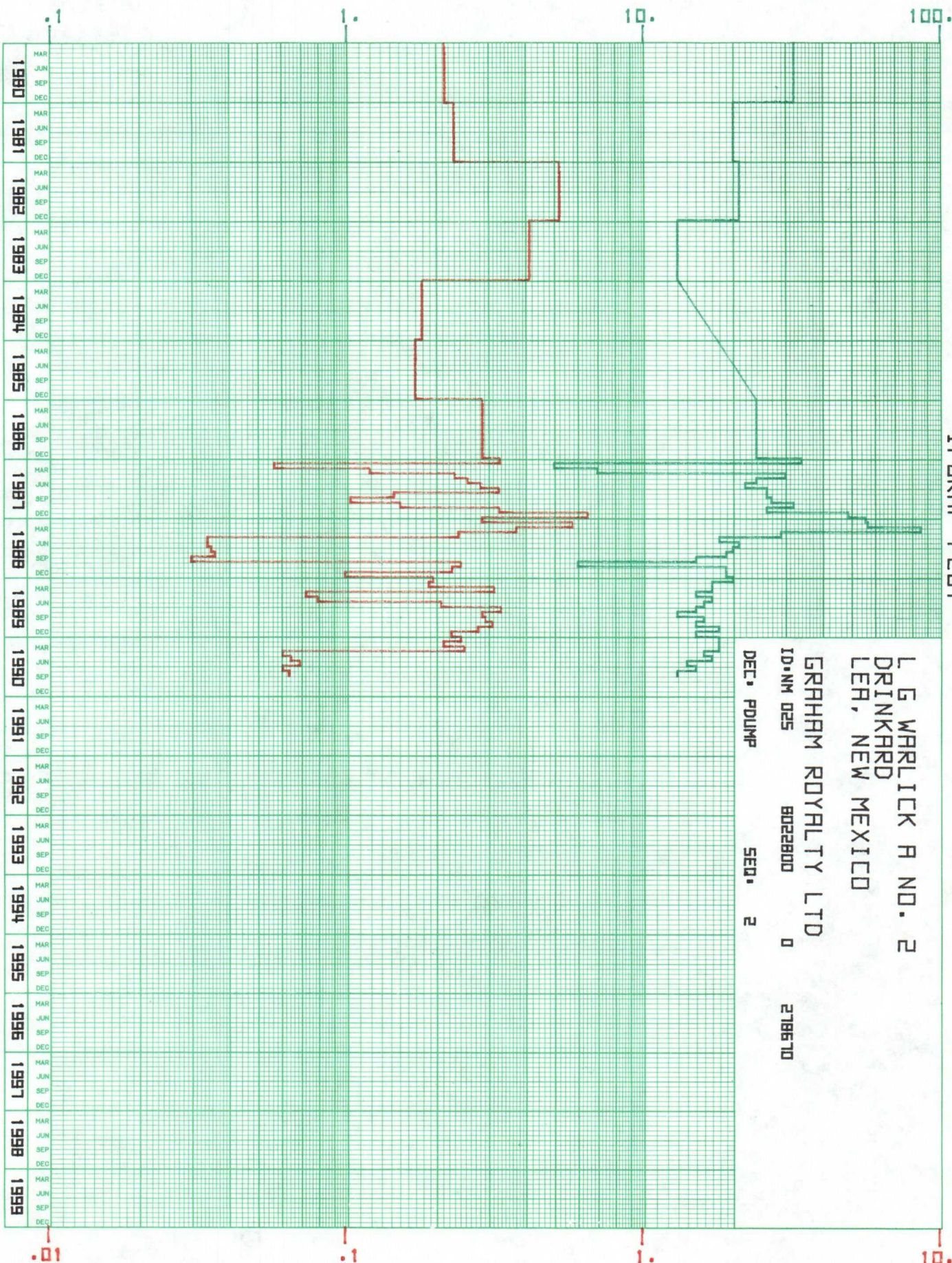
278670

DEC. PDUMP

SEQ. 2

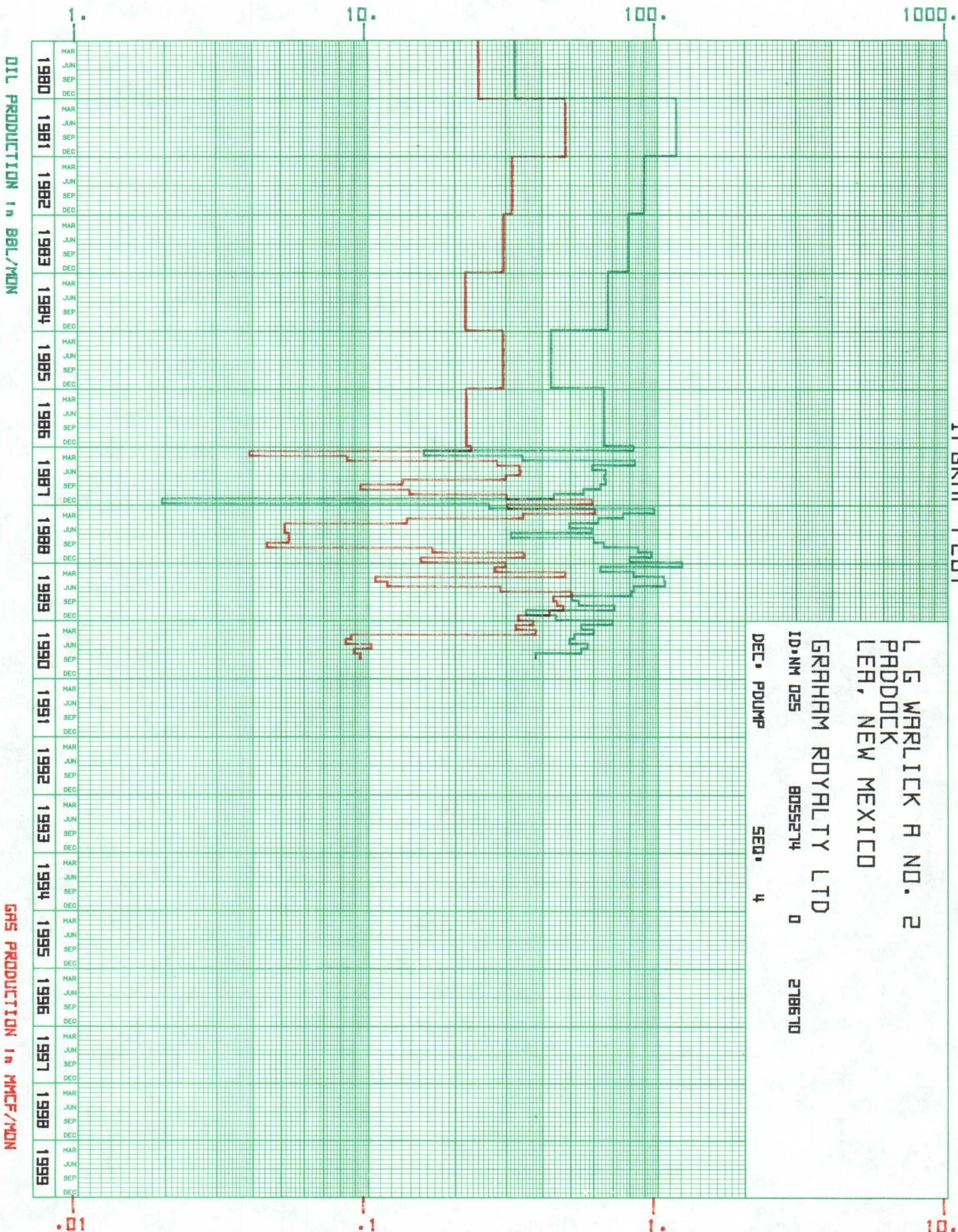
OIL PRODUCTION in BBL/MON

GAS PRODUCTION in MMCF/MON



IPGRAPH PLOT

L G WRRLICK A NO. 2
 PRDDOCK
 LEH, NEW MEXICO
 GRAHAM ROYALTY LTD
 ID# NM 025 8055274 0 278670
 DEC. PDUMP SEQ. 4



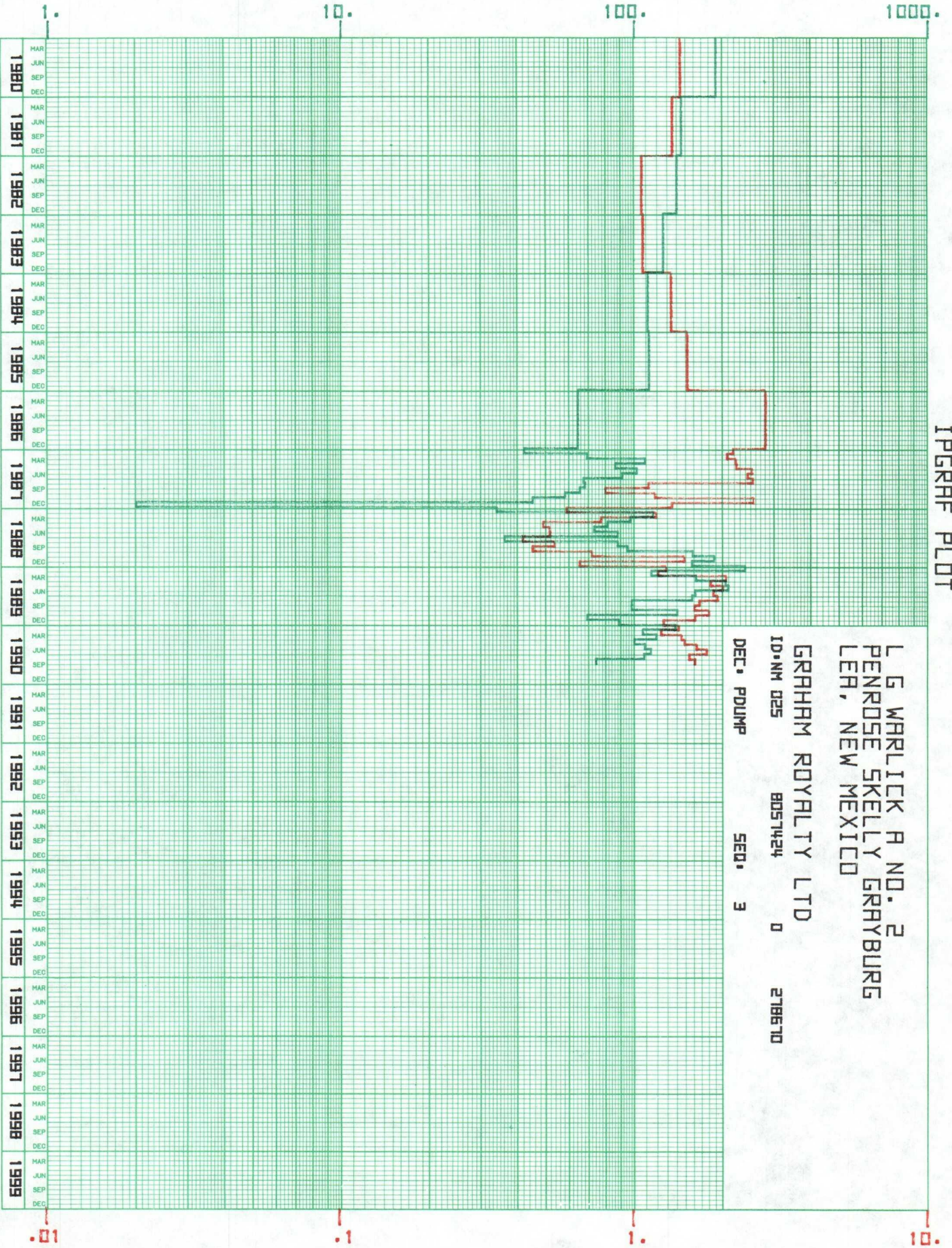
IPGRF PLOT

L G WARLICK A NO. 2
PENROSE SKELLY GRAYBURG
LEH, NEW MEXICO

GRAHAM ROYALTY LTD

ID# NM 025 8057424 0 278670

DEC# PDUMP SED# 3



OIL PRODUCTION in BBL/MON

GAS PRODUCTION in MMCF/MON

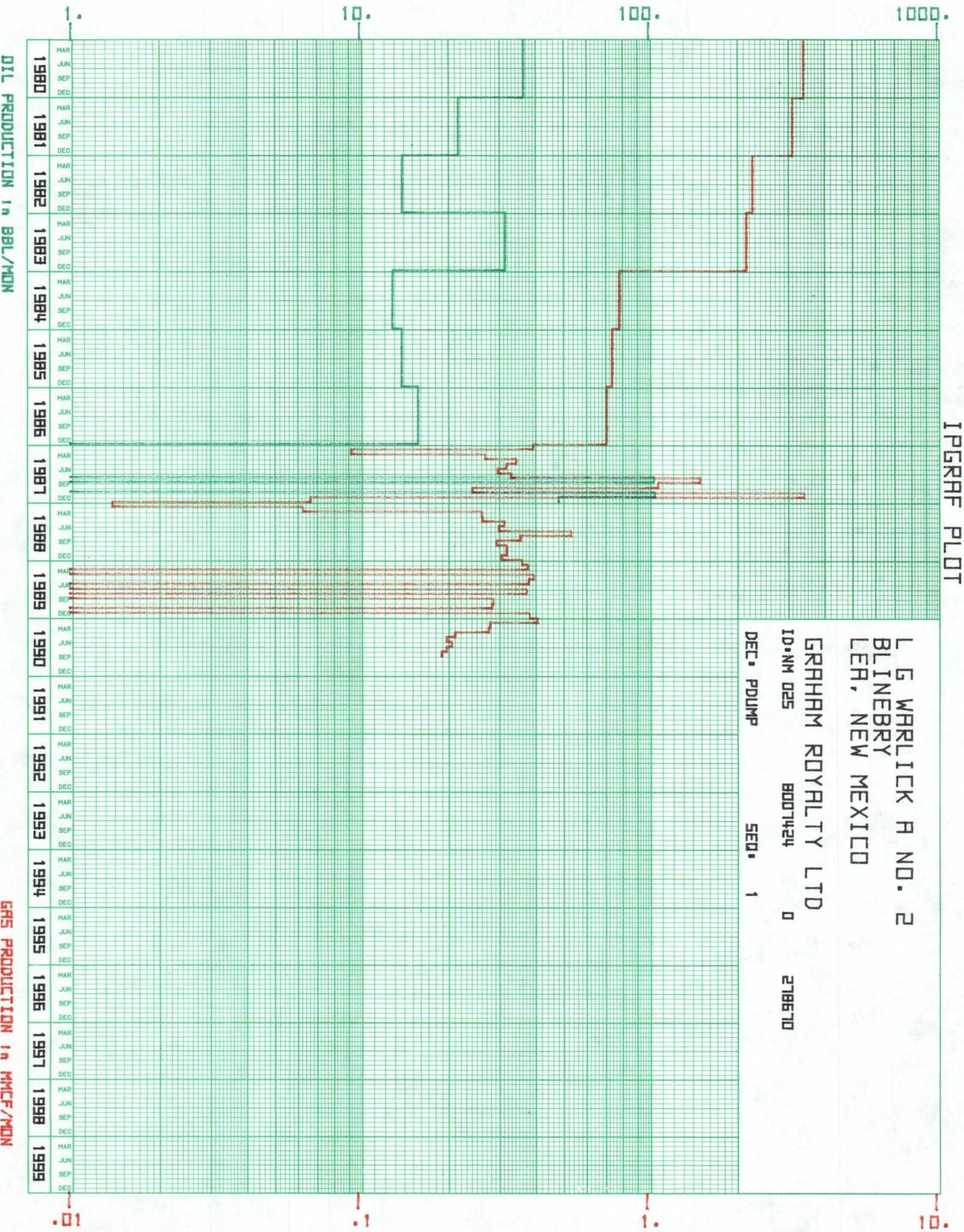
IPGRAF PLOT

L G WRLICK R NO. 2
BLINEBRY
LEH, NEW MEXICO

GRAHAM ROYALTY LTD

ID-NM 025 8007424 0 278670

DEC. PDUMP SED. 1



OIL PRODUCTION in BBL/MON

GAS PRODUCTION in MMCF/MON

GRAHAM

ON DIVISION

DALLAS DIVISION

'91 JAN 11 AM 8 47

December 21, 1990

SEE ATTACHED LIST

Re: Request for Downhole Commingling Permit
Rule 303C
Warlick "A" No. 2
NW 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:mh

Attachment

I do () do not (✓) object to the commingling request for this well, in the Penrose Skelly, Blinewry, Drinkard and Paddock.

Signed Bonnie Wilson

Date Jan 9, 1991

Company ORIX ENERGY



PL C-1082 ON DIVISION
RL 7ED

'91 JAN 22 AM 9 37

Amoco Production Company

Houston Region
501 WestLake Park Boulevard
Post Office Box 3092
Houston, Texas 77253

James F. Trickett
Regional Environmental, Safety &
Regulatory Affairs Manager

January 11, 1991

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: William J. LeMay

File: JCA-2900-986.51NM

Gentlemen:

Downhole Commingling Application
Warlick "A" Well No. 2
Blinebry and Drinkard Oil and Gas Pools
NW SE, Sec. 19, T21S, R37E
Lea County, New Mexico

Amoco Production Company has been given due notice and has no objections to Graham Royalty, LTD's request to commingle the Blinebry and Drinkard Oil and Gas production downhole in their Warlick "A" Well No. 2 , Lea County, New Mexico.

Yours very truly,

MLC

Graham Royalty, LTD.
5429 LBJ Freeway Suite 550
Dallas, TX 75240



RECEIVED
DALLAS DIVISION

91 JAN 7 AM 9 17

DALLAS DIVISION

December 21, 1990

SEE ATTACHED LIST

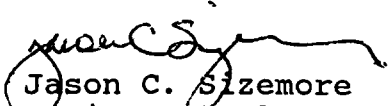
Re: Request for Downhole Commingling Permit
Rule 303C
Warlick "A" No. 2
NW SE Section 19-T21S-R37E
Lea County, New Mexico

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:mh

Attachment

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

Signed Alaska Bohling - Production Engineer

Date January 4, 1991

Company Chevron U.S.A. Inc.