



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 - Administrative 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

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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

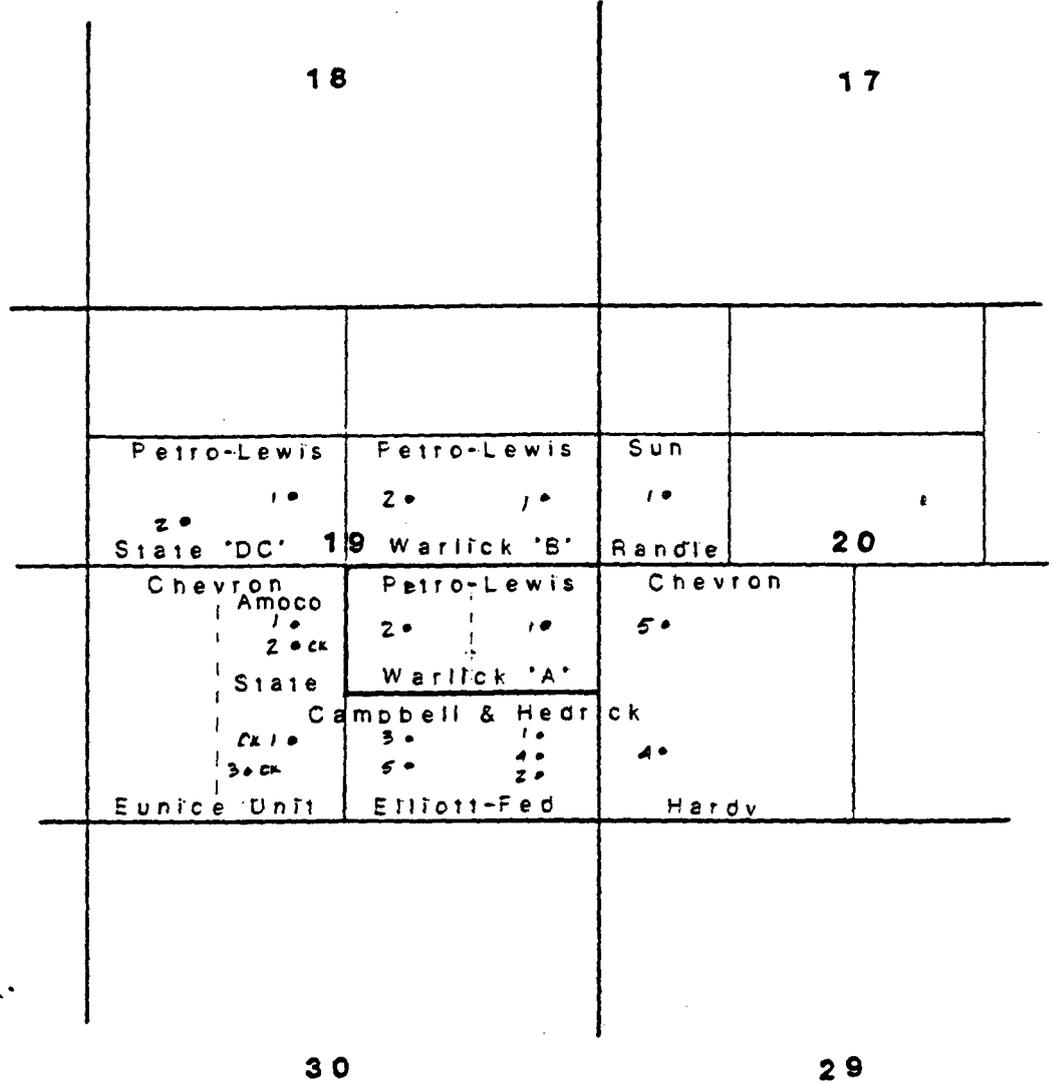
JCS/ca

Attachments



R36E

R37E



T21S

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	
<p style="text-align: center;"><b>OFFSET OPERATORS</b></p> <p style="text-align: center;"><b>PETRO-LEWIS</b></p> <p style="text-align: center;"><b>WARLICK 'A' LEASE</b></p>	
<p style="text-align: center;"><b>LEA CO., NM</b></p> <p style="text-align: right;">1" = 2000'</p>	

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

Form C-116  
 Revised 1/1/89

# OIL CONSERVATION DIVISION

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

## GAS - OIL RATIO TEST

Operator		Pool		County				
Graham Royalty, Ltd.		Paddock		Lea				
Address			TYPE OF TEST - (X)		Completion		Special	
5429 LBJ Freeway, Suite 550 Dallas, TX 75240			SCHEDULED <input checked="" type="checkbox"/>	WATER BBL.S.	PROD. DURING TEST GRAV. OIL	OIL BBL.S.	GAS MCF.	GAS - OIL RATIO CU.FT./BBL.
LEASE NAME	WELL NO.	LOCATION						
		U S T R						
L. G. Warlick 'A'	2	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.  
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 P.O. Box 1980, Hobbs, NM 88240  
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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		Pool		County											
Graham Royalty, Ltd.		Blinebry		Lea											
Address		TYPE OF TEST - (X)		Completion											
5429 LBJ Freeway, Suite 550 Dallas, TX 75240		Scheduled <input checked="" type="checkbox"/> Special <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.

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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		Pool		County												
Graham Royalty, Ltd.		Penrose - Skelly		Lea												
Address		TYPE OF TEST - (X)		Completion												
5429 IBJ Freeway, Suite 550 Dallas, TX 75240		Scheduled <input checked="" type="checkbox"/> Special <input type="checkbox"/>														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	SP. GRAV. OIL	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'	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.

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Jason C. Sizemore Sr. Petroleum Engineer  
 Printed name and title

12/20/90

(214) 991-3344

Date

Telephone No.

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 Energy, Minerals and Natural Resources Department  
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 P.O. Box 2088  
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Form C-116  
 Revised 1/1/89

**GAS - OIL RATIO TEST**

Operator		Pool		County							
Graham Royalty, Ltd.		Drinkard		Lea							
Address			TYPE OF TEST - (X)		Completion		Special				
5429 LBJ Freeway, Suite 550 Dallas, TX 75240			SCHEDULED <input checked="" type="checkbox"/>	DAILY ALLOWABLE	LENGTH OF TEST HOURS	WATER BBL.S.	PROD. DURING TEST GRAV. OIL	OIL BBL.S.	GAS M.C.F.	GAS - OIL RATIO CU.FT/BBL.	
LEASE NAME	WELL NO.	LOCATION									DATE OF TEST
		U S T R									
L. G. Warlick 'A'	2	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.

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

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Signature

Jason C. Sizemore Sr. Petroleum Engineer  
 Printed name and title

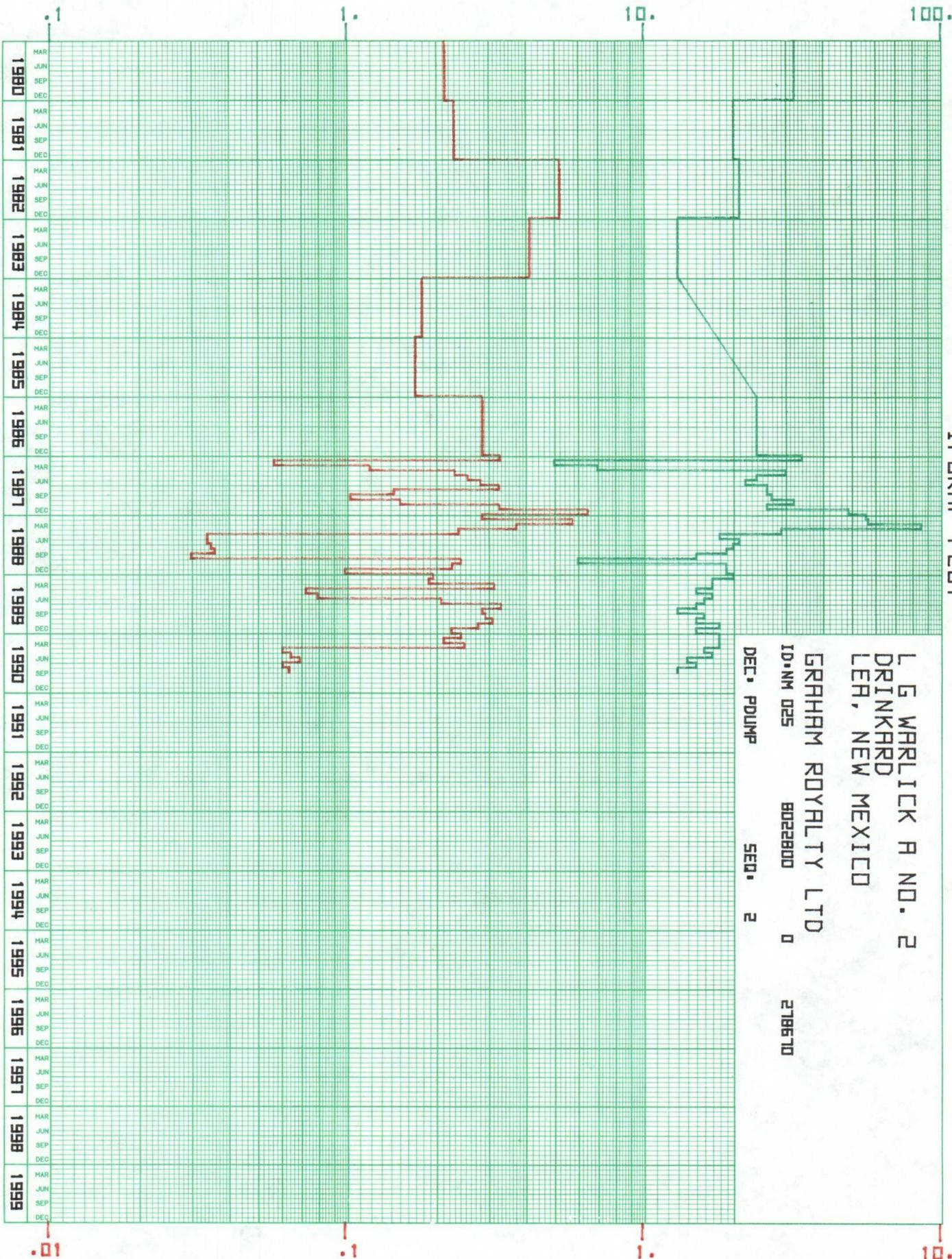
Date

12/20/90 (214) 991-3344

Telephone No.

IPGRAP PLOT

L G WARLICK P NO. 2  
 DRINKARD  
 LER, NEW MEXICO  
 GRRHAM ROYALTY LTD  
 ID-NM 025 8022800 0 278670  
 DEC. PDUMP SEQ. 2



OIL PRODUCTION IN BBL/MON

GAS PRODUCTION IN MMCF/MON

0.1

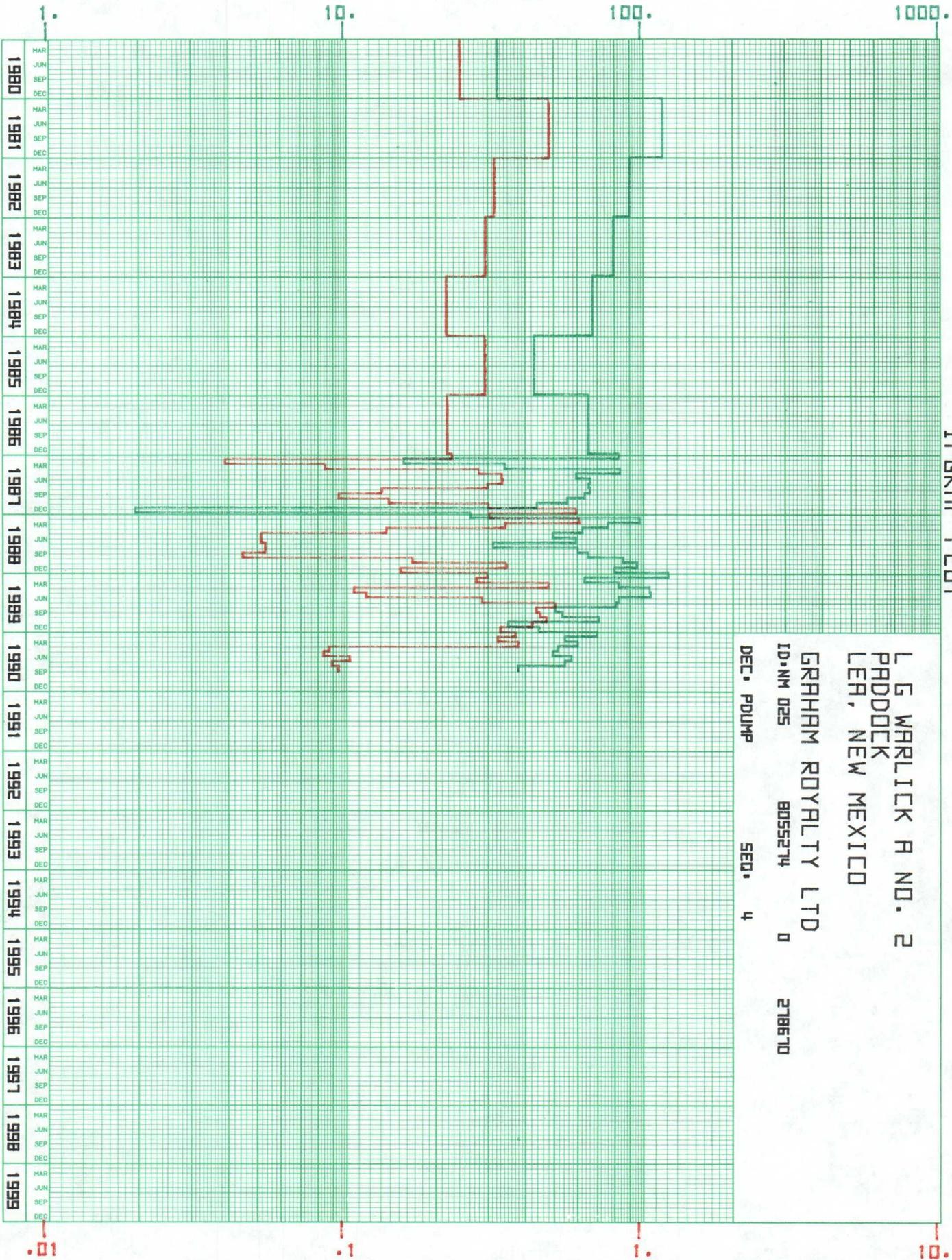
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10

100

IPGRPF PLOT

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



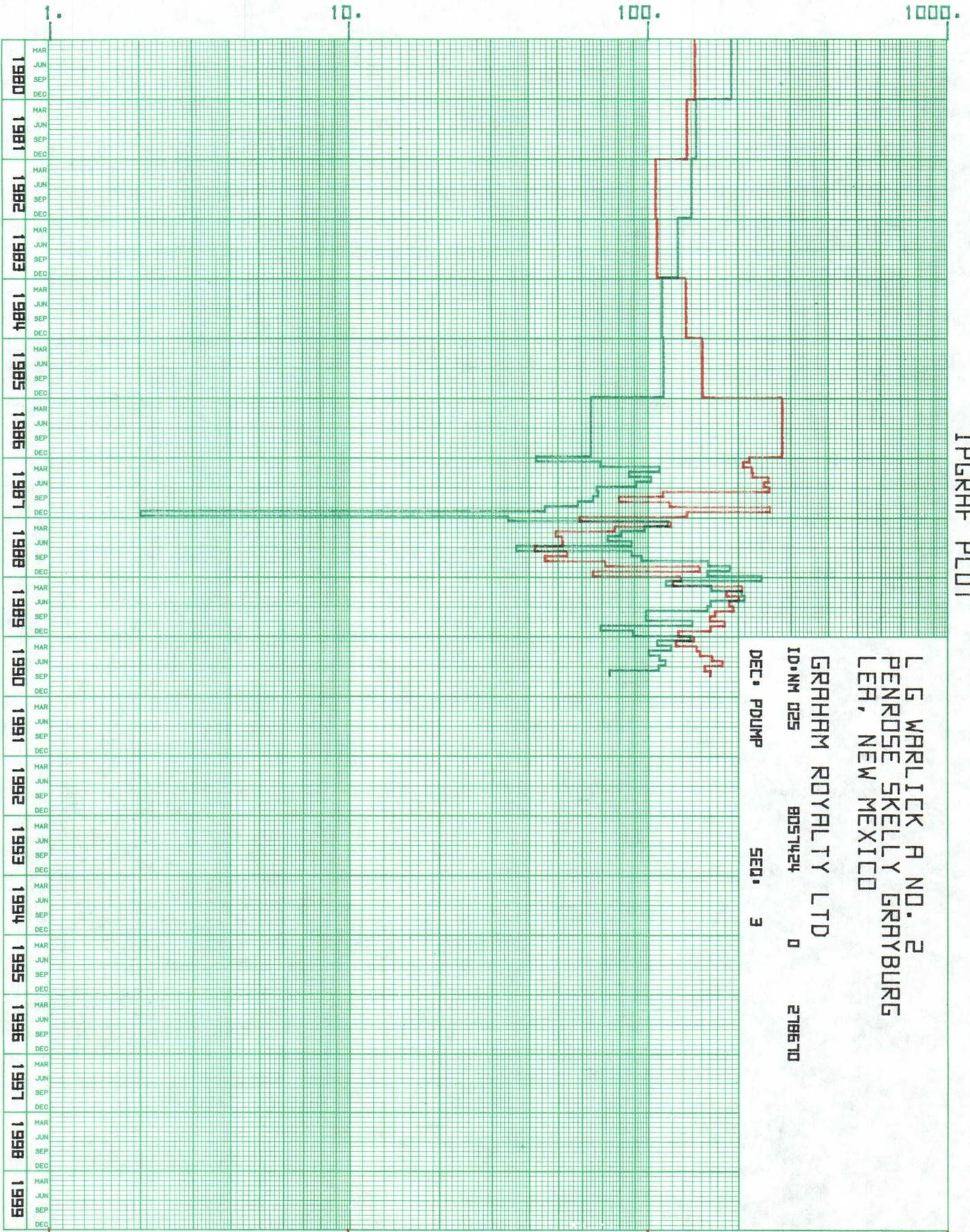
OIL PRODUCTION IN BBL/MON

GAS PRODUCTION IN MMCF/MON

IPGRPF PLOT

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

GRPHRM ROYALTY LTD  
 ID·NM 025 8057424 0 278670  
 DEC· PDUMP SED· 3

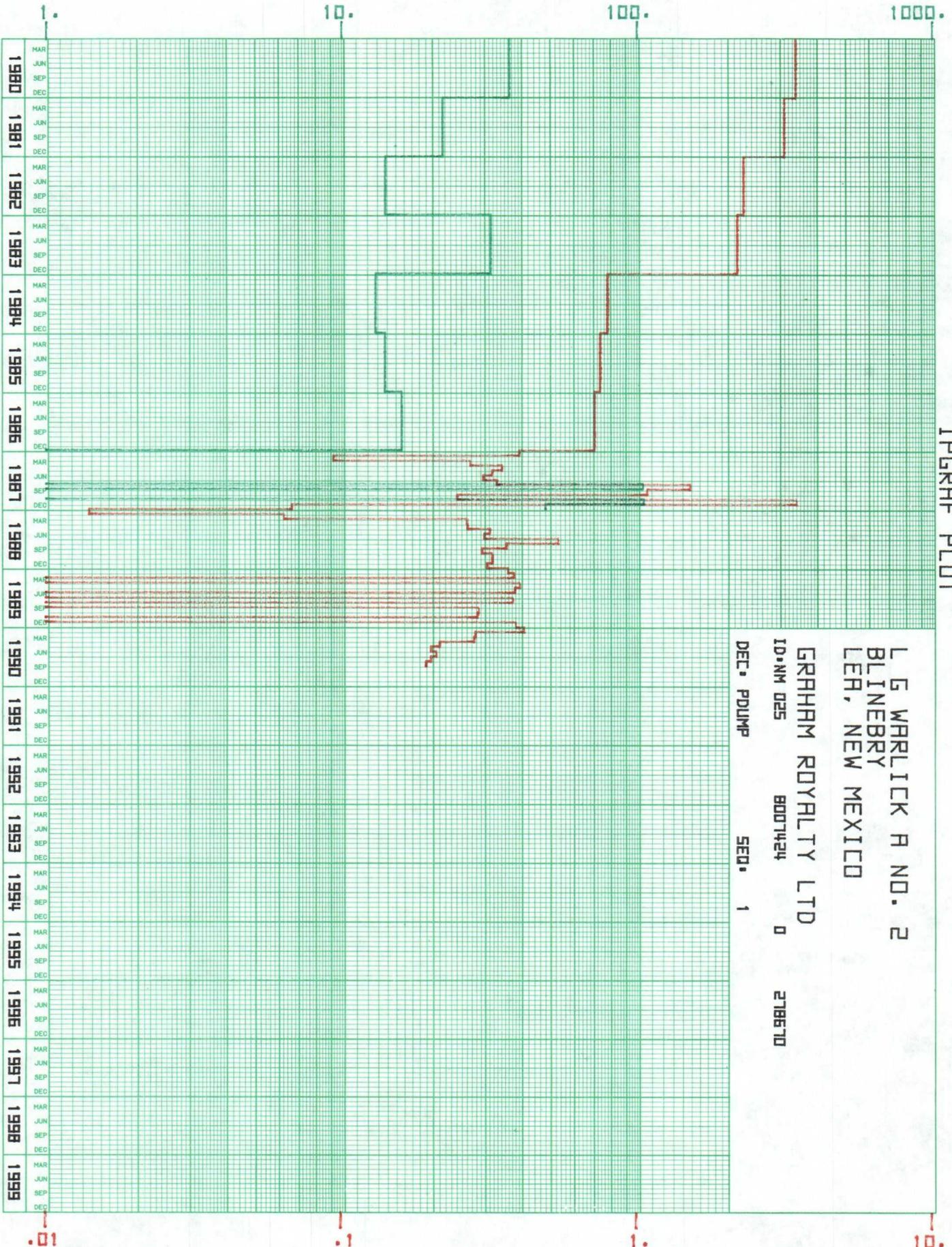


OIL PRODUCTION in BBL/MON

GAS PRODUCTION in MMCF/MON

IPGRPF PLOT

L G WRRICK 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

OIL CONSERVATION DIVISION  
RECEIVED

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.

*copy to be made  
of this letter to be  
sent to the Commission*

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, Blinobry, Drinkard and Paddock.*

Signed *Bonnie Wilson*

Date *Jan 9, 1991*

Company *ORyx ENERGY*



OLC/MBE... DIVISION  
RE... /ED

'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

**GRAHAM**

RECEIVED  
DALLAS DIVISION  
91 JAN 7 AM 9 17

DALLAS DIVISION

December 21, 1990

SEE ATTACHED LIST

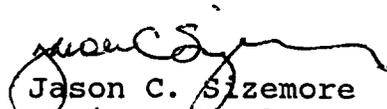
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Respectfully,

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 Alas W. Bohling - Production Engineer

Date January 4, 1991

Company Chevron U.S.A. Inc.