

Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

L. R. Smith
District Manager

June 21, 1985

File: LRS-1270-WF

Re: Application to Downhole Commingle
State "CK" No. 2
Blinebry and Drinkard Oil Pools
Lea County, New Mexico

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: R. L. Stamets, Director

Approval is being requested to downhole commingle the State "CK" No. 2 well in accordance with NMOCD Rule 303C.

This well is located 1650' FSL x 2207.6' FWL of Section 19, T-21-S, R-37-E, Lea County, New Mexico. This well was initially completed on February 23, 1960, as a triple completion in the Paddock, Blinebry, and Drinkard Horizons and remains as such to this date. The Blinebry had been pumping from below a packer prior to June, 1984, when the pump stuck and efforts to pull it were unsuccessful. This zone is currently shut-in. The Drinkard is also currently shut-in. This zone quit flowing in May of this year and will need artificial lift to be returned to production. The Paddock is currently the only zone producing; however, the 2-1/16" tubing is hindering the artificial lift and causing a number of pulling jobs.

Two offset wells to the State "CK" No. 2 have received approval to downhole commingle the Drinkard and Blinebry horizons. The wells are as follows:

- 1) Petro Lewis - Operator
L. G. Warlick No. 2
Unit B, Sec. 19, T-21-S, R-37-E
Administrative Order No. R-6463

- 2) Campbell and Hedrick - Operator
Hardy No. 2
Unit P, Sec. 19, T-21-S, R-37-E
Administrative Order No. DHC-226

In support of our request, we submit the following facts:

1. The latest 24-hour productivity tests are as follows:

	<u>Date</u>	<u>BOPD</u>	<u>BWPD</u>	<u>MCFD</u>	<u>PERFORATIONS</u>
Blinebry	6-2-84	12	4	18	5770-5942'
Drinkard	4-29-85	8	3	24	6609-6659'

2. Neither zone produces more than the combined oil limit as determined in Rule 303, Paragraph C, Section 1-(1) and (a)(3).
3. The produced fluids should be compatible and commingling these fluids should not result in precipitates which might damage the reservoir.
4. Downhole commingling of the Blinebry and Tubb-Drinkard will not jeopardize the efficiency of future secondary recovery operations in either zone.
5. The two zones are surface commingled and therefore no depreciation of value will occur from downhole commingling.
6. Expected daily production from the commingled zones is as follows:

	<u>BLINEBRY</u>	<u>DRINKARD</u>	<u>COMMINGLED</u>
BOPD	12	8	20
MCFD	18	24	42

7. Since the zones to be commingled are producing from below packers, we are unable to obtain shut-in sonolog shots to determine bottomhole pressures. However, as mentioned previously, two immediate offsets are downhole commingled in the Drinkard and Blinebry and have met the bottomhole pressure requirements. Amoco believes the bottomhole pressures in the State "CK" No. 2 are comparative and will also meet the requirements.
8. Both zones to be commingled have common ownership.
9. Recommended oil and gas allotments are as follows:

	<u>OIL</u>	<u>GAS</u>
Blinebry	60%	43%
Drinkard	40%	57%

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Page 3

10. All offset operators have been notified by registered mail (copy of receipts attached).
11. Attached are: Ownership plat showing the well and all offsets, production decline curves for both zones, and a list of all offset operators and their addresses.

Should you require additional information regarding this matter, feel free to contact Nevin Gates at (505) 393-1781, Extension 250.



NLG/tjt
APRD05-NN

Attachments

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

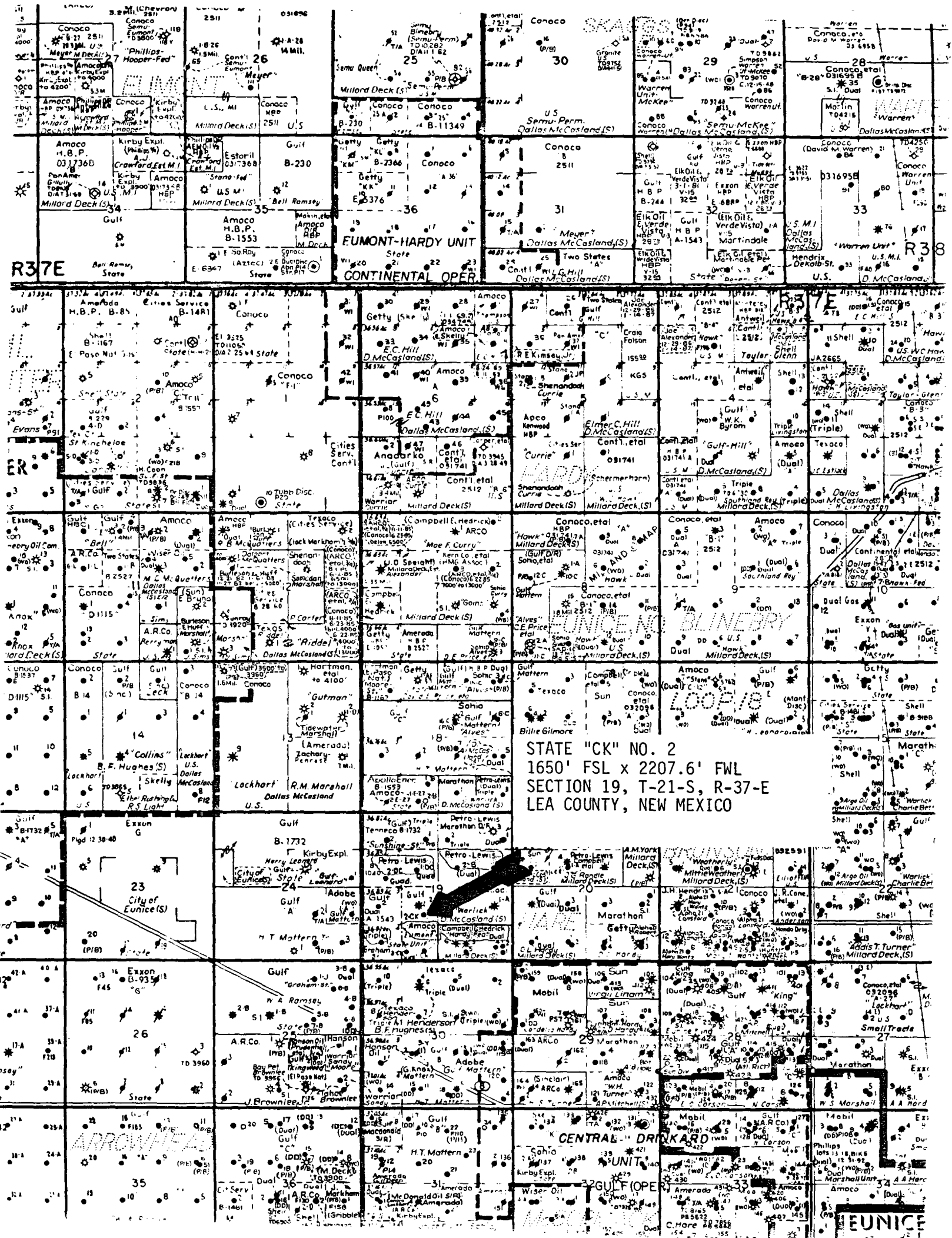
OFFSET OPERATORS ADDRESSEE LIST

Petro-Lewis Corporation
Box 2250
717 17th St.
Denver, CO 80201

Gulf Oil Exploration and Production Company
Box 670
Hobbs, NM 88240

Campbell and Hedrick
Box 401
Midland, TX 79701

Texaco, Inc.
Box 728
Hobbs, NM 88240



PLOT 2 01.32.50 SPT 15 JUN, 1985

JOB-R63MPS6, 5000, TULSA CENTER DISPLA VER 8.2

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

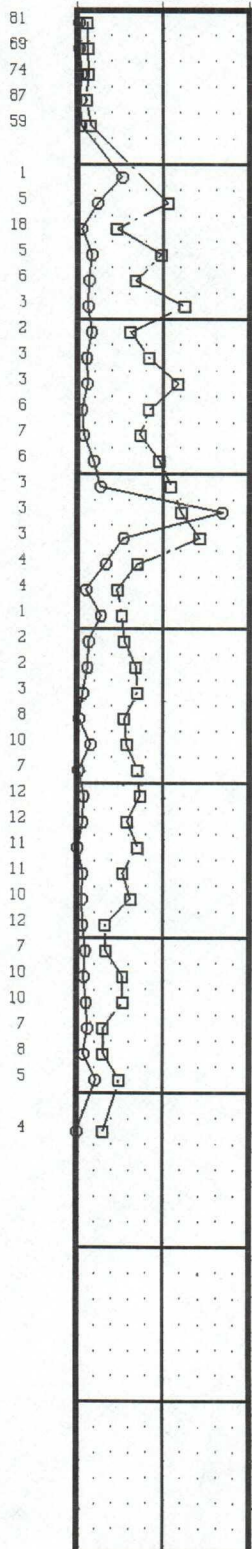


OIL

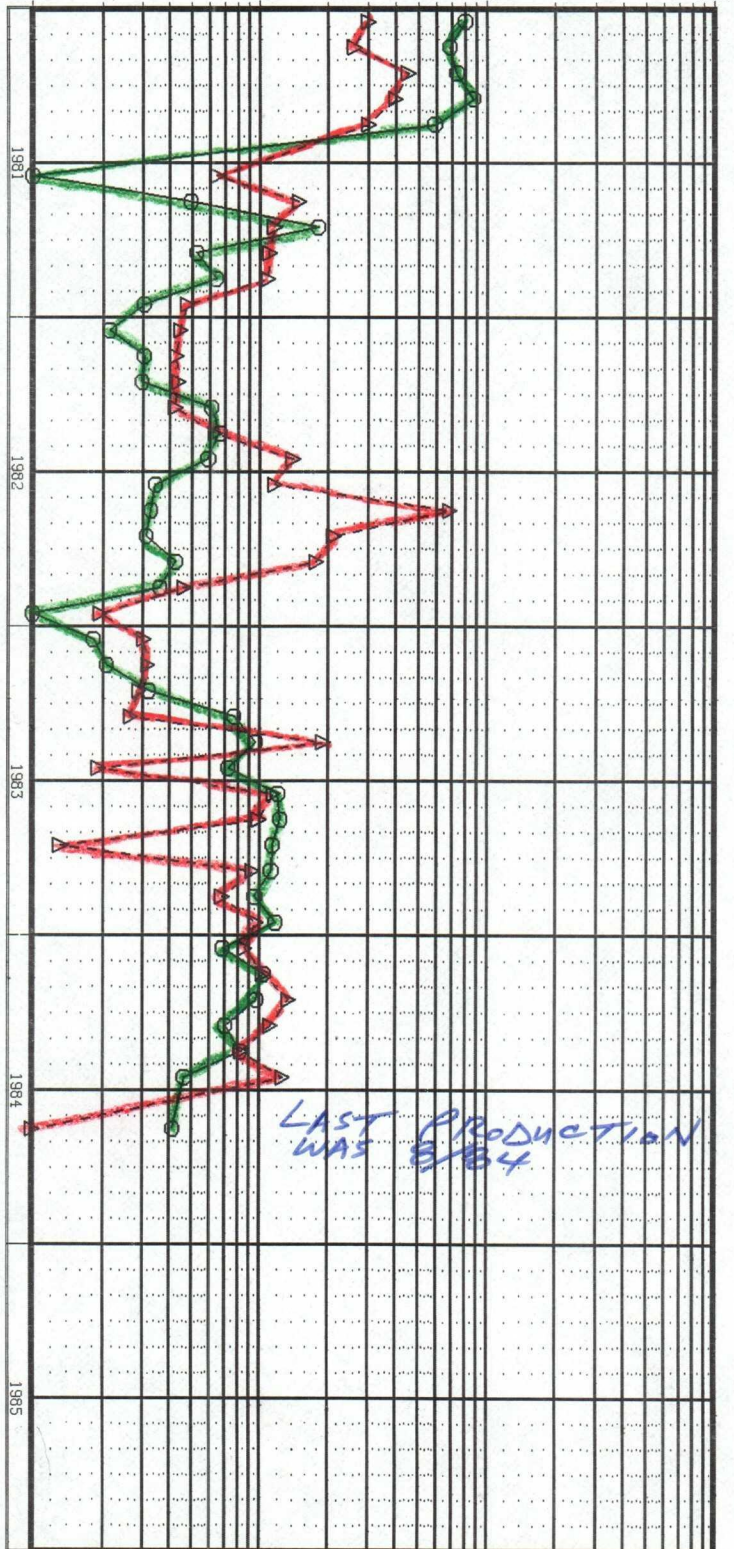
WELL: STATE CK
FIELD: BLINBRY OIL AND GAS
OPERATOR: AMOCO PRODUCTION CO
STATE: NM 30 COUNTY: LEA
FIRST PROD LAST PROD 84 12
REQUESTOR: HUTCHESO-HOB-2 LOCATION: HOBBS
000002 BL 008007424 RESERVOIR: BL
API NO: 300250667300
GENID: 4W020402
COMP DATE: 025
TOT OIL CUM: 154,577
TOT GAS CUM: 236,683
PERFS:

PERCENT BSW
FTP IN PSIG
GOR - CFPB

MAJOR PRODUCT



GROSS GAS PROD - MCFD
GROSS OIL PROD - BOPD



1985-06-14

TIME

REPORT NUMBER 321

OIL

GENID: 4W020403

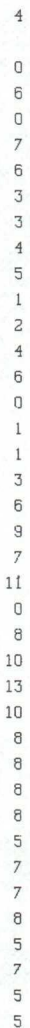
RESERVOIR: DR

COMP DATE:

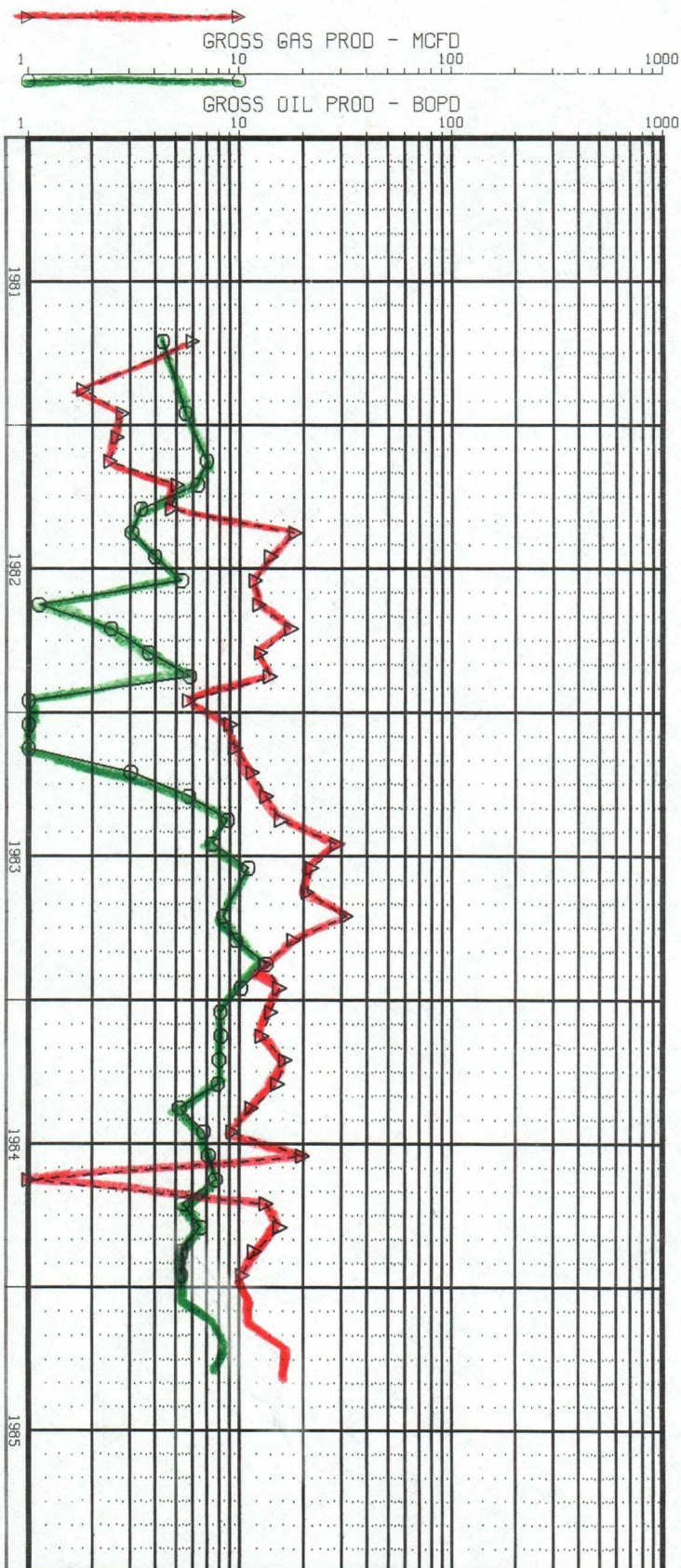
224,721

591,019

PERFS:



MAJOR PRODUCT —



1985-06-14

TIME

REPORT NUMBER 321

P 267 162 745 **RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		GULF OIL EXP & PROD CO.	
STREET AND NO.		BOX 670	
P.O. STATE AND ZIP CODE		HOBBS, NEW MEXICO 88240	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	\$
		SPECIAL DELIVERY	\$
	RETURN RECEIPT SERVICE	RESTRICTED DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED	\$
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	\$
TOTAL POSTAGE AND FEES		\$ 1.84	
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

P 267 162 746 **RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		PETRO-LEWIS CORP.	
STREET AND NO.		BOX 2250 (717 17TH ST.)	
P.O. STATE AND ZIP CODE		DENVER, CO. 80201	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	\$
		SPECIAL DELIVERY	\$
	RETURN RECEIPT SERVICE	RESTRICTED DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED	\$
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	\$
TOTAL POSTAGE AND FEES		\$ 1.84	
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

P 267 162 743 **RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		TEXACO, INC.	
STREET AND NO.		BOX 728	
P.O. STATE AND ZIP CODE		HOBBS, NEW MEXICO 88240	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	\$
		SPECIAL DELIVERY	\$
	RETURN RECEIPT SERVICE	RESTRICTED DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED	\$
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	\$
TOTAL POSTAGE AND FEES		\$ 1.84	
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

P 267 162 744 **RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		CAMPBELL & HEDRICK	
STREET AND NO.		BOX 401	
P.O. STATE AND ZIP CODE		MIDLAND, TEXAS 79701	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	\$
		SPECIAL DELIVERY	\$
	RETURN RECEIPT SERVICE	RESTRICTED DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED	\$
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	\$
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	\$
TOTAL POSTAGE AND FEES		\$ 1.84	
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

GAS-OIL RATIO TESTS

Operator Amoco Production Company		Pool Lea	County Lea										
P. O. Box 68, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		Completion ☐ Special ☒									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL
		U	S	T						R	WATER BBL.S.	GRAV. OIL	
STATE CK	2	K	19	21	37	4-28-85			8	24	3	24	3000

No well will be assigned an allowable greater than the amount of oil produced on the official test.
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.
Well original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 331 and appropriate pool rules.

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

Robert M. Lersey
(Signature)
Administrative Analyst (SG)
6-25-85

6-25-85 (Tide)

Memo

From
DAVID CATANACH
Petroleum Engineer

To

Current Production:

Paddock	22 B0	20 MCF
BID	13 B0	75 MCF

As per DHC-556 current BID is split
as follows:

Blinebry	7.8 B0	32 MCF
Drinkard	5.2 B0	43 MCF

Current Split:

Paddock	22 B0	20 MCF
Blinebry	7.8 B0	32 MCF
Drinkard	5.2 B0	43 MCF

So

Amended Allocation equals:

	Oil	Gas
Paddock	63	21
Blinebry	22	34
Drinkard	15	45

Oil Conservation Division Santa Fe, New Mexico 87504
(505) 827-5807



Well Completed
07 02/23/62

Amoco Production Company

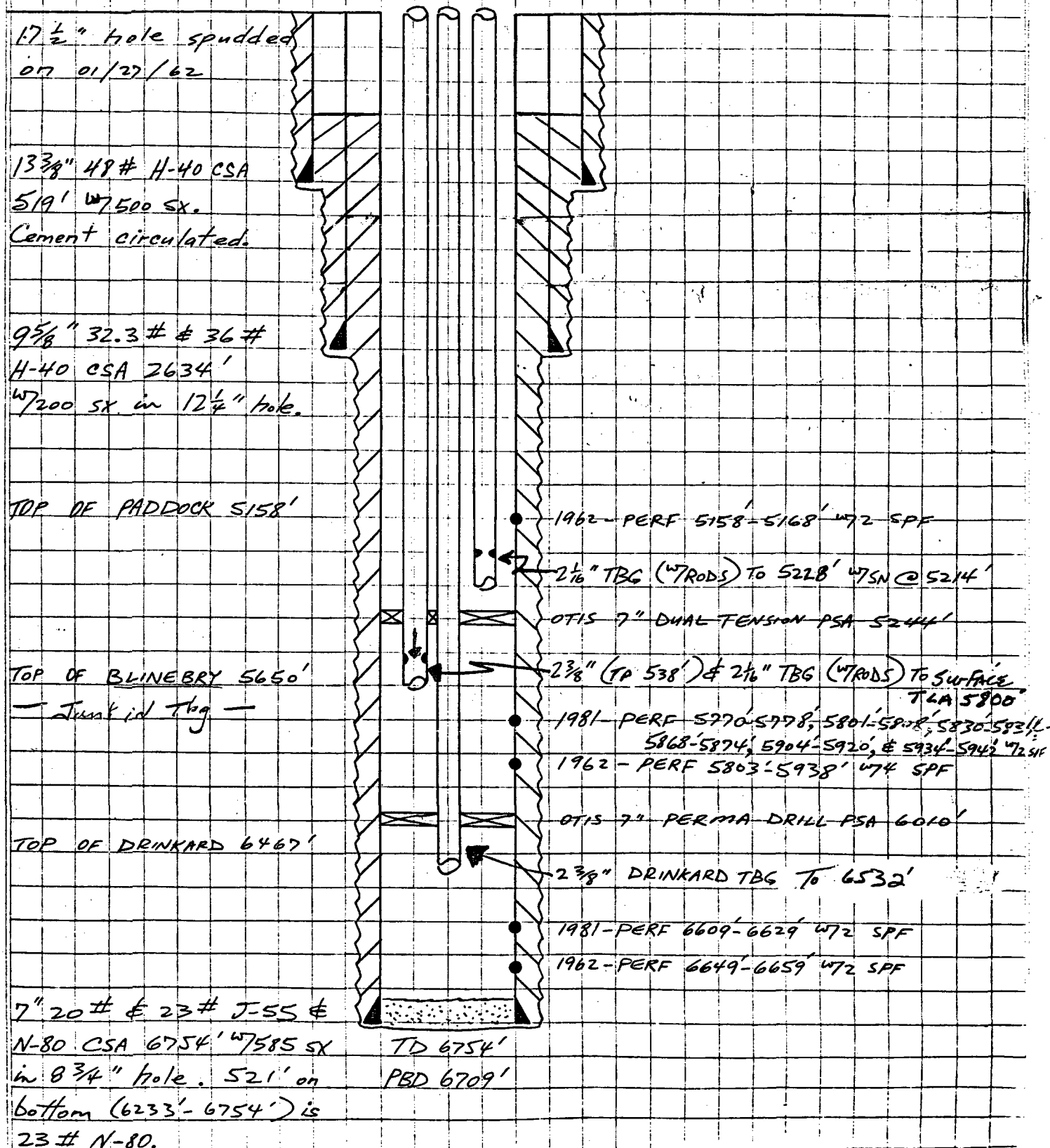
ENGINEERING CHART

SHEET NO. OF
FILE **CURRENT**
APPN **Configuration**
DATE 10-20-81
BY Steve Bates

SUBJECT **State CK/Well No. 2 (triple completion)**

Unit K, 1650' FSL x 2207.6' FWL of Section 19, T21S, R37E

Lea County, New Mexico Elevations @ GL = 3507' @ DF = 3517' @ KB = 3520'





Well Completed
07 02/23/62

Amoco Production Company

ENGINEERING CHART

SUBJECT State CK Well No. 2 (triple completion)

Unit K, 1650' FSL x 2207.6' FWL of Section 19, T21S, R37E

Lea County, New Mexico Elevation 5 @ GL = 3507' @ DF = 3517' @ KB = 3520'

17 1/2" hole spudded
07 01/27/62

13 3/8" 48# H-40 CSA

519' w7500 SX.

Cement circulated.

9 5/8" 32.3# & 36#

H-40 CSA 2634'

w7200 SX in 12 1/4" hole.

TOP OF PADDOCK 5158'

1962 - PERF 5158'-5168' w72 SPF

2 3/8" TBG (w7RODS) To 5228' w7SN @ 5214'

PKR SA x 5244'

TOP OF BLINEBRY 5650'

1981 - PERF 5770'-5778', 5801'-5808', 5830'-5837',
5868'-5874', 5904'-5920', & 5934'-5942' w72

1962 - PERF 5803'-5938' w74 SPF

TOP OF DRINKARD 6467'

2 3/8" TBG To Produce Drinkard x Blinebry
RODS x PMP SA @ 6532'

1981 - PERF 6609'-6629' w72 SPF

1962 - PERF 6649'-6659' w72 SPF

7" 20# & 23# J-55 &

N-80 CSA 6754' w7585 SX

in 8 3/4" hole. 521' on

bottom (6233'-6754') is

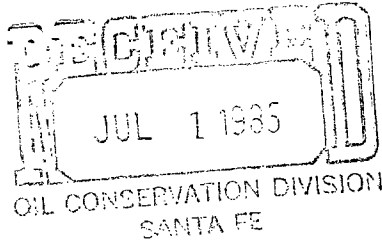
23# N-80.

TD 6754'

PBD 6709'



L. R. Smith
District Manager



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

June 21, 1985

File: LRS-1273-WF

Re: Downhole Commingling of the
State "CK" Well No. 2
Blinebry and Drinkard Oil Pools
1650' FSL x 2207.6' FWL
Section 19, T-21-S, R-37-E
Lea County, New Mexico

Campbell and Hedrick
Box 401
Midland, TX 79701

Amoco Production Company, as operator of the State "CK" No. 2, (see attached plat), hereby notifies you that we have applied to the NMOCD for Administrative Approval to downhole commingle the subject well. Commingling will enhance the economic operation of the well.

If you have no objections to the commingling, please sign in the space provided below and forward one copy to the NMOCD in Santa Fe, one copy to the NMOCD in Hobbs, one copy to this office, and retain one copy for your records. Addressed, stamped envelopes have been provided for your convenience.

L.R. Smith

Approval

Company:

Campbell & Hedrick

By:

JF Hedrick

Date:

6/26/1985

NLG/tjt
APRD04-BB

Attachment

REC'D. JT. OPER.



JUL 1 1985

Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

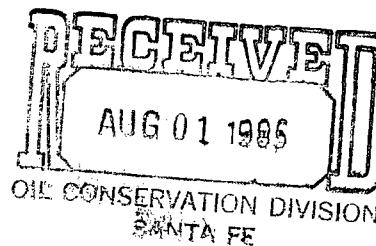
Midland Division

L. R. Smith
District Manager

June 21, 1985

File: LRS-1273-WF

Re: Downhole Commingling of the
State "CK" Well No. 2
Blinebry and Drinkard Oil Pools
1650' FSL x 2207.6' FWL
Section 19, T-21-S, R-37-E
Lea County, New Mexico



Texaco, Inc.
Box 728
Hobbs, NM 88240

Amoco Production Company, as operator of the State "CK" No. 2, (see attached plat), hereby notifies you that we have applied to the NMOCD for Administrative Approval to downhole commingle the subject well. Commingling will enhance the economic operation of the well.

If you have no objections to the commingling, please sign in the space provided below and forward one copy to the NMOCD in Santa Fe, one copy to the NMOCD in Hobbs, one copy to this office, and retain one copy for your records. Addressed, stamped envelopes have been provided for your convenience.

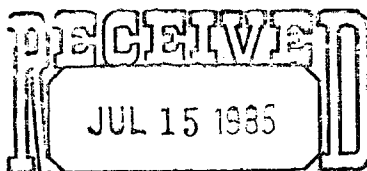
Approval _____

Company: TEXACO Inc.

By:

Date: July 30, 1985NLG/tjt
APRD04-BB

Attachment

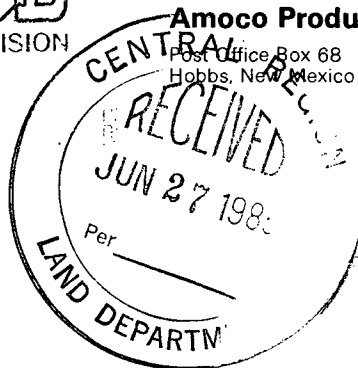


OIL CONSERVATION DIVISION
SANTA FE

Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

L. R. Smith
District Manager



June 21, 1985

File: LRS-1273-WF

Re: Downhole Commingling of the
State "CK" Well No. 2
Blinebry and Drinkard Oil Pools
1650' FSL x 2207.6' FWL
Section 19, T-21-S, R-37-E
Lea County, New Mexico

Petro-Lewis Corporation
Box 2250
717 17th Street
Denver, CO 80201

Amoco Production Company, as operator of the State "CK" No. 2, (see attached plat), hereby notifies you that we have applied to the NMOCD for Administrative Approval to downhole commingle the subject well. Commingling will enhance the economic operation of the well.

If you have no objections to the commingling, please sign in the space provided below and forward one copy to the NMOCD in Santa Fe, one copy to the NMOCD in Hobbs, one copy to this office, and retain one copy for your records. Addressed, stamped envelopes have been provided for your convenience.

L.R. Smith

Approval

Granted

Company:

Petro-Lewis Corp.

By:

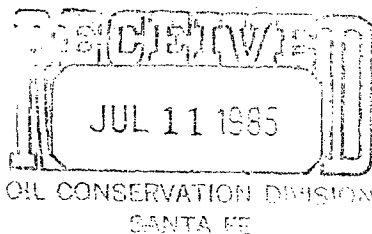
Wayne Wiser

Date:

July 11, 1985

NLG/tjt
APRD04-BB

Attachment



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

L. R. Smith
District Manager

June 21, 1985

File: LRS-1273-WF

Re: Downhole Commingling of the
State "CK" Well No. 2
Blinebry and Drinkard Oil Pools
1650' FSL x 2207.6' FWL
Section 19, T-21-S, R-37-E
Lea County, New Mexico

Gulf Oil Exploration and Production Company
Box 670
Hobbs, NM 88240

Amoco Production Company, as operator of the State "CK" No. 2, (see attached plat), hereby notifies you that we have applied to the NMOCD for Administrative Approval to downhole commingle the subject well. Commingling will enhance the economic operation of the well.

If you have no objections to the commingling, please sign in the space provided below and forward one copy to the NMOCD in Santa Fe, one copy to the NMOCD in Hobbs, one copy to this office, and retain one copy for your records. Addressed, stamped envelopes have been provided for your convenience.

L.R. Smith

Approval _____

Company: Chevron U.S.A. Inc. (formerly Gulf)

By: *R. C. Anderson*

Date: 7-9-85

NLG/tjt
APRD04-BB

Attachment

DHC-556

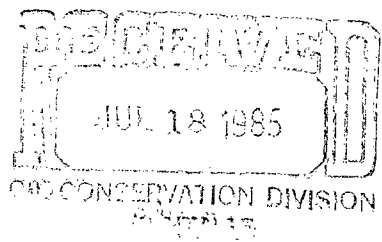


STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

July 15, 1985

TONY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161



OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

- MC _____
- DHC _____ X _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

Gentlemen:

I have examined the application for the:

Amoco Production Co.	State CK	No. 2-K	19-21-37
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

O.K. ----J.S.

Yours very truly,

Jerry Sexton
Supervisor, District 1

/mc