



Amoco Production Company

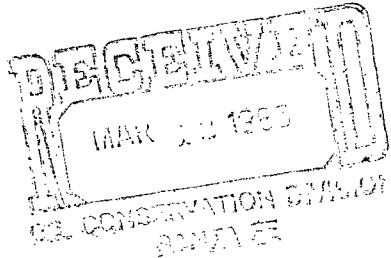
Post Office Box 68
Hobbs, New Mexico 88240

L. R. Smith
District Manager

February 21, 1986

File: SGH-236-WF

Re: Downhole Commingling
McQuatters Well No. 3
Hardy Blinbry and Hardy Drinkard Oil Pools
700' FNL x 2230' FEL
Section 11, T-21-S, R-36-E
Lea County, New Mexico



RECEIVED

FEB 28 '86

~~NOBIS AREA~~

Chevron USA
P. O. Box 670
Hobbs, NM 88240

Amoco Production Company, as operator of the McQuatters Well No. 3 (see attached plat) is applying to the New Mexico Oil Conservation Division to downhole commingle the subject well.

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

L. R. Smith

BAO/sh
APRD03-M

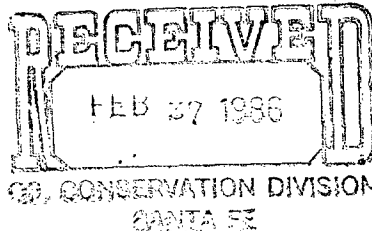
Attachment

APPROVAL:

Company: Chevron USA Inc

By: L. C. Anderson

Date: 3-7-86



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

L. R. Smith
District Manager

February 21, 1986

File: SGH-236-WF

Re: Downhole Commingling
McQuatters Well No. 3
Hardy Blinbry and Hardy Drinkard Oil Pools
700' FNL x 2230' FEL
Section 11, T-21-S, R-36-E
Lea County, New Mexico

Two States Oil Company
P. O. Box 176
Eunice, NM 88231

Amoco Production Company, as operator of the McQuatters Well No. 3 (see attached plat) is applying to the New Mexico Oil Conservation Division to downhole commingle the subject well.

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

L. R. Smith JSM

BAO/sh
APRD03-M

Attachment

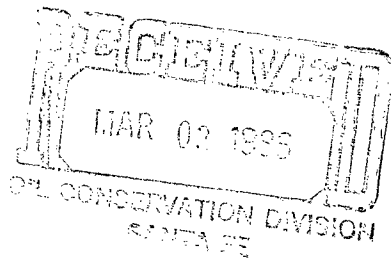
APPROVAL:

Company:

By:

Date:

Two States Oil CO.
R. E. Pippard
2-25-86



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico 88240

L. R. Smith
District Manager

**WISER
Received**

February 21, 1986

FEB 27 '86

File: SGH-236-WF

W.F. Office

Re: Downhole Commingling
McQuatters Well No. 3
Hardy Blinbry and Hardy Drinkard Oil Pools
700' FNL x 2230' FEL
Section 11, T-21-S, R-36-E
Lea County, New Mexico

The Wiser Oil Company
Suite 904, Building of the Southwest
310 W. Texas
Midland, TX 79701

Amoco Production Company, as operator of the McQuatters Well No. 3 (see attached plat) is applying to the New Mexico Oil Conservation Division to downhole commingle the subject well.

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

L. R. Smith

BAO/sh
APRD03-M

Attachment

APPROVAL:

Company: Wiser Oil Co

By: Herk Halder

Date: 2-27-86

AMOCO PRODUCTION COMPANY
RECEIVED
2-24-86

*Copied to file
2-27-86
JH*



Amoco Production Company

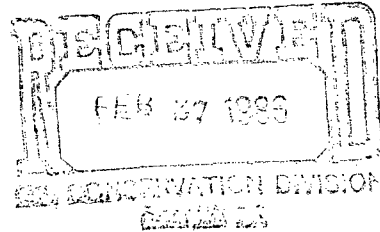
Post Office Box 68
Hobbs, New Mexico 88240

L. R. Smith
District Manager

February 21, 1986

File: SGH-239-WF

Re: Application for Exception to
State Rule 303A to Permit
Wellbore Commingling of Production
McQuatters Well No. 3
700' FNL x 2230' FEL,
Section 11, T-21-S, R-36-E
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
Division Director

Amoco Production Company, as operator of the subject well, respectfully requests an exception to State Rule 303A to permit downhole commingling of the Hardy Blinebry and Hardy Drinkard oil pools within the wellbore of McQuatters Well No. 3, located 770' from the north line and 2230' from the east line, Unit B, Section 11, T-21-S, R-36-E, Lea County, New Mexico.

The following data are submitted in support of our request:

This well was initially completed as a flowing oil well in the Drinkard zone on May 14, 1980. Pumping equipment was installed in June, 1982, and the well was recompleted in the Blinebry as a pumping oil well in February, 1984. Latest tests on this well are as follows:

	<u>Date</u>	<u>BOPD</u>	<u>BWPD</u>	<u>MCFGD</u>
Hardy Blinebry	01/24/86	16	15	200
Hardy Drinkard	*01/11/84	1	1	60

* Drinkard zone has been shut-in (temporarily abandoned) since February, 1984.

Neither zone produces more than the combined oil limit as determined by Rule 303C, (a), (1) and (3).

The nearby McQuatters No. 5, State "C" Tract 11 No. 11, and State "C" Tract 11 No. 9 Hardy Drinkard and Hardy Blinebry fluids are currently being commingled; therefore, the fluids are compatible and commingling these fluids in McQuatters No. 3 should not result in the formation of precipitates which might damage either reservoir.

Commingling of fluids will not jeopardize the efficiency of future secondary recovery operations in either zone. The two zones are surface commingled at the present time; therefore, no depreciation in value of the crude will occur as a result of downhole commingling. Expected daily production from the commingled zones is as follows:

	<u>BOPD</u>	<u>BWPD</u>	<u>MCFGD</u>
Hardy Blinebry	23	22	300
Hardy Drinkard	<u>1</u>	<u>8</u>	<u>40</u>
Commingled	<u>24</u>	<u>30</u>	<u>340</u>

Recommended oil and gas allotments are as follows:

	<u>Oil</u>	<u>Gas</u>
Blinebry	96%	88%
Drinkard	4%	12%

Estimated bottomhole pressures are:

Blinebry	985 psi at 5900
Drinkard	1487 psi at 6600

Both zones to be commingled have common ownership.

All offset operators have been notified by certified mail, return receipt requested (copy of receipts attached).

Attached are:

1. Ownership plat showing the well and all offsets.
2. Production decline curves for both zones.
3. A list of all offset operators and their addresses.

February 21, 1986
File: SGH-239-WF
Page 3

Should you require additional information regarding this request, please contact Beverly Otwell at (505) 393-1781, Extension 250.

L. F. Smith ^{SEN}

BAO/sh
APRD03-N

Attachments

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

LIST OF OFFSET OPERATORS

Chevron USA (formerly Gulf)
P. O. Box 670
Hobbs, NM 88240

Two States Oil Company
P. O. Box 176
Eunice, NM 88231

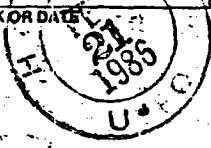
The Wiser Oil Company
Suite 904, Building of the Southwest
310 W. Texas
Midland, TX 79701

RECEIPTS FOR CERTIFIED (RETURN RECEIPT REQUESTED) MAIL
 NOTICES TO OFFSET OPERATORS
 THAT AMOCO PRODUCTION COMPANY IS APPLYING
 FOR APPROVAL TO
 DOWNHOLE COMMINGLE PRODUCTION FROM THE
 MCQUATTERS WELL NO. 3, LEA COUNTY,
 NEW MEXICO

P 267 162 772

RECEIPT FOR CERTIFIED MAIL

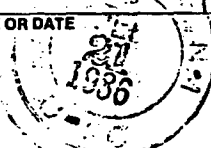
NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		CHEVRON USA	
STREET AND NO.		P.O. Box 670	
P.O., STATE AND ZIP CODE		HOBBS, NM 88240	
POSTAGE		\$ 56¢	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE		
	SPECIAL DELIVERY		
	RESTRICTED DELIVERY	75¢	
	SHOW TO WHOM AND DATE DELIVERED	70¢	
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		
TOTAL POSTAGE AND FEES		\$ 2.23	
POSTMARK OR DATE			

P 267 162 773

RECEIPT FOR CERTIFIED MAIL

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

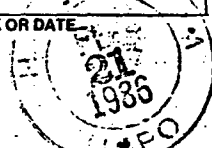
SENT TO		TWO STATES OIL Co.	
STREET AND NO.		P.O. Box 176	
P.O., STATE AND ZIP CODE		EUNICE, NM 88231	
POSTAGE		\$ 56¢	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE		
	SPECIAL DELIVERY		
	RESTRICTED DELIVERY	75¢	
	SHOW TO WHOM AND DATE DELIVERED	70¢	
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		
TOTAL POSTAGE AND FEES		\$ 2.23	
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

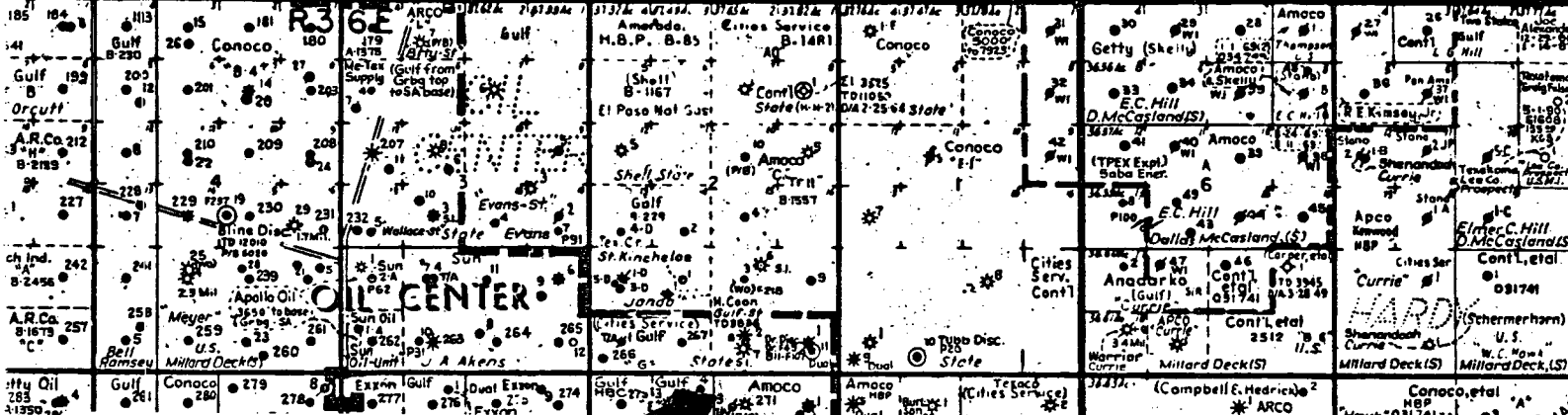
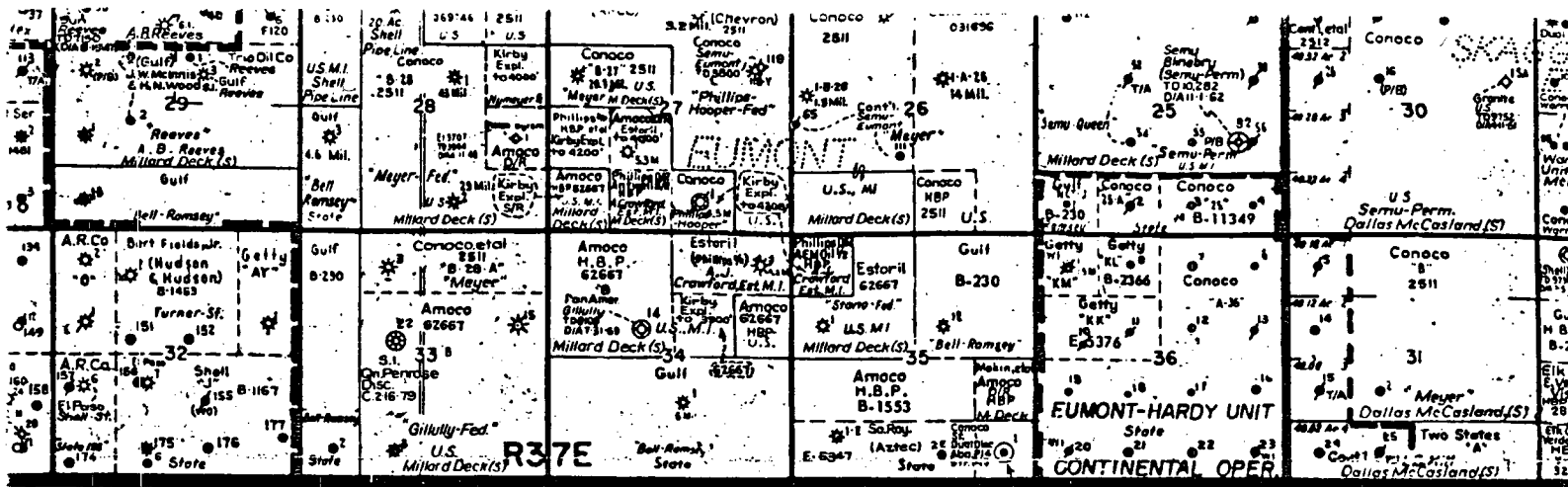
P 267 162 774

RECEIPT FOR CERTIFIED MAIL

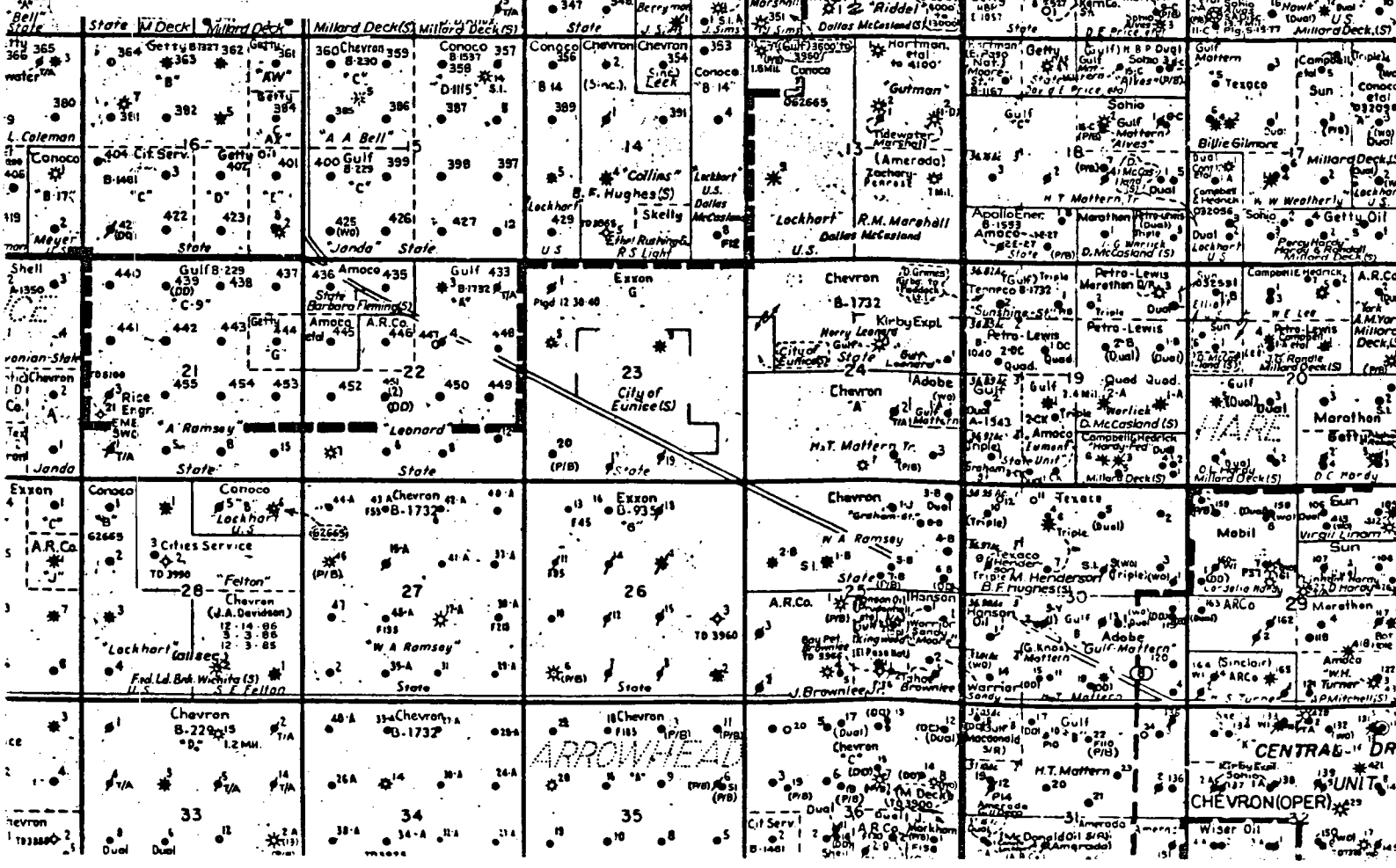
NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

SENT TO		THE WISER OIL COMPANY	
STREET AND NO.		STE. 904 BLDG OF SW 310 W. TEXAS	
P.O., STATE AND ZIP CODE		MIDLAND, TX 79701	
POSTAGE		\$ 56¢	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	75¢	
	SPECIAL DELIVERY		
	RESTRICTED DELIVERY		
	SHOW TO WHOM AND DATE DELIVERED	70¢	
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		
TOTAL POSTAGE AND FEES		\$ 2.23	
POSTMARK OR DATE			

PS Form 3800, Apr. 1976

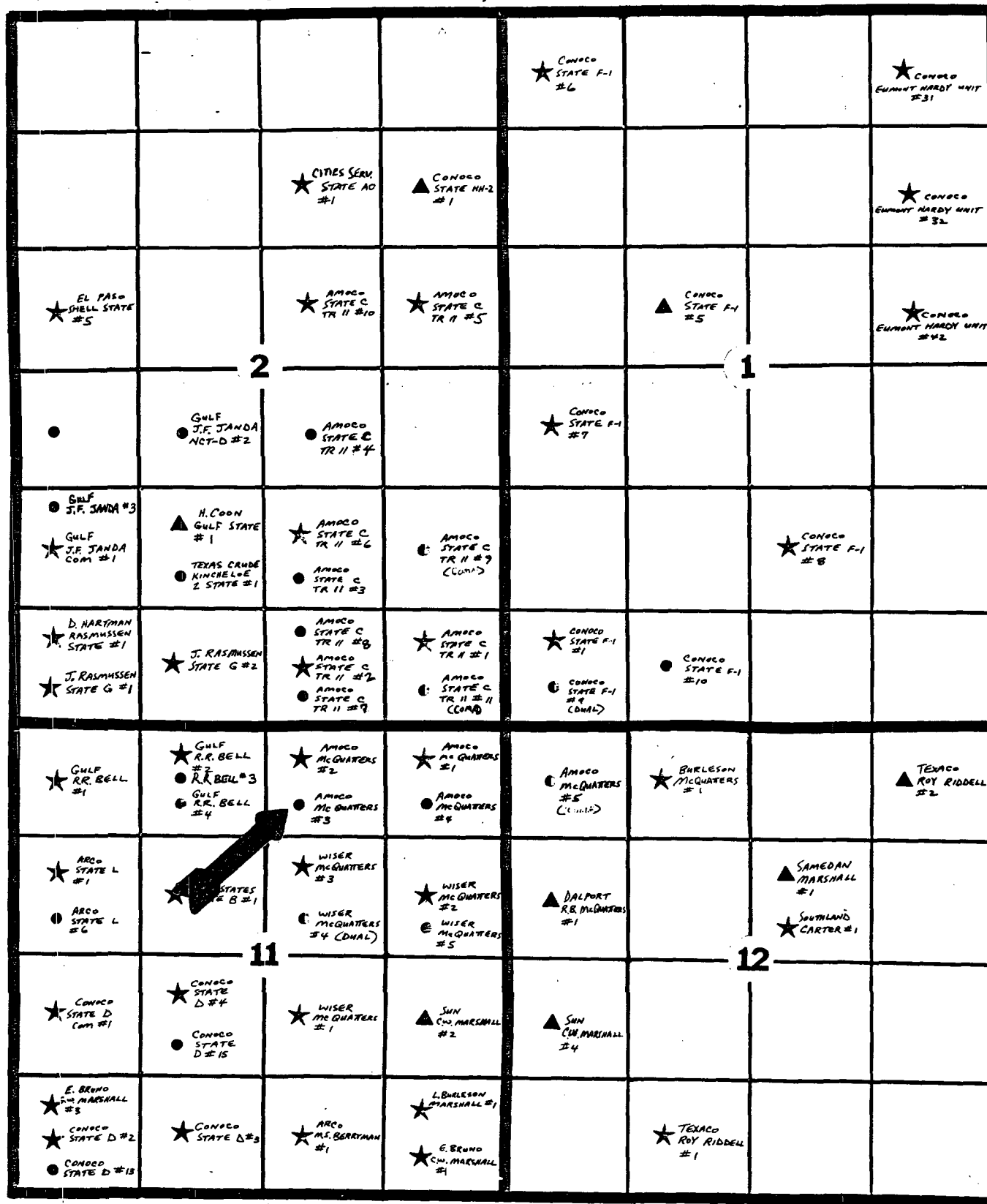


2. UTAMOCO PRODUCTION COMPANY'S
McQUATTERS WELL NO. 3
ARCO 700' FNL x 2230' FEL SEC. 11,
T-21-S, R-36-E UNIT B,
LEA COUNTY, NEW MEXICO



AMOCO OPERATED MC QUATTERS (100%) & STATE C TRACT 11 (100%)

IN SOUTHEAST LEA COUNTY, NEW MEXICO (T21S) (R36E)



LEGEND:

★ QUEEN
★ GSA
★ SAN ANDRES

● GLORIETA
● BLINEBRY
● TUBB

▲ DRINKARD
▲ P X A

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

API NO: 300250000000 GENID: 4W029855

OIL

WELL: MCQUATTERS

000003

LOCATION: 11B21S 36E

FIELD: HARDY BLINERY

EL

008C32811 RESEFVOIR: BL

OPERATOR: AMOCO PRODUCTION CO

D19923

COMP DATE: 84 02

STATE: NM 30 COUNTY: LEA

025

9,216

FIRST PROD LAST PROD 85 06

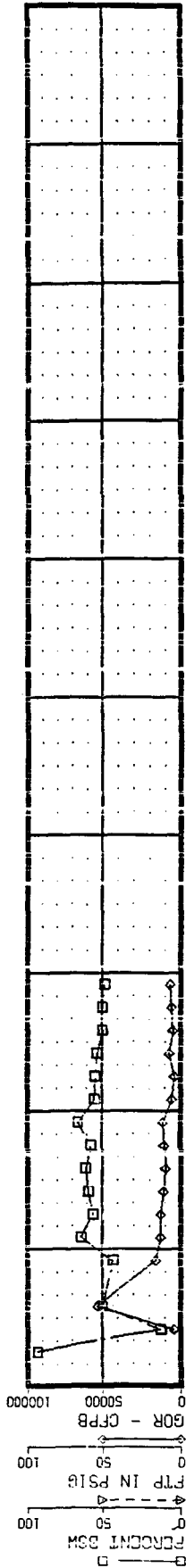
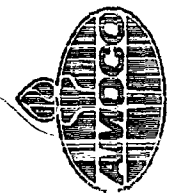
TOT. OIL CUM:

77,645

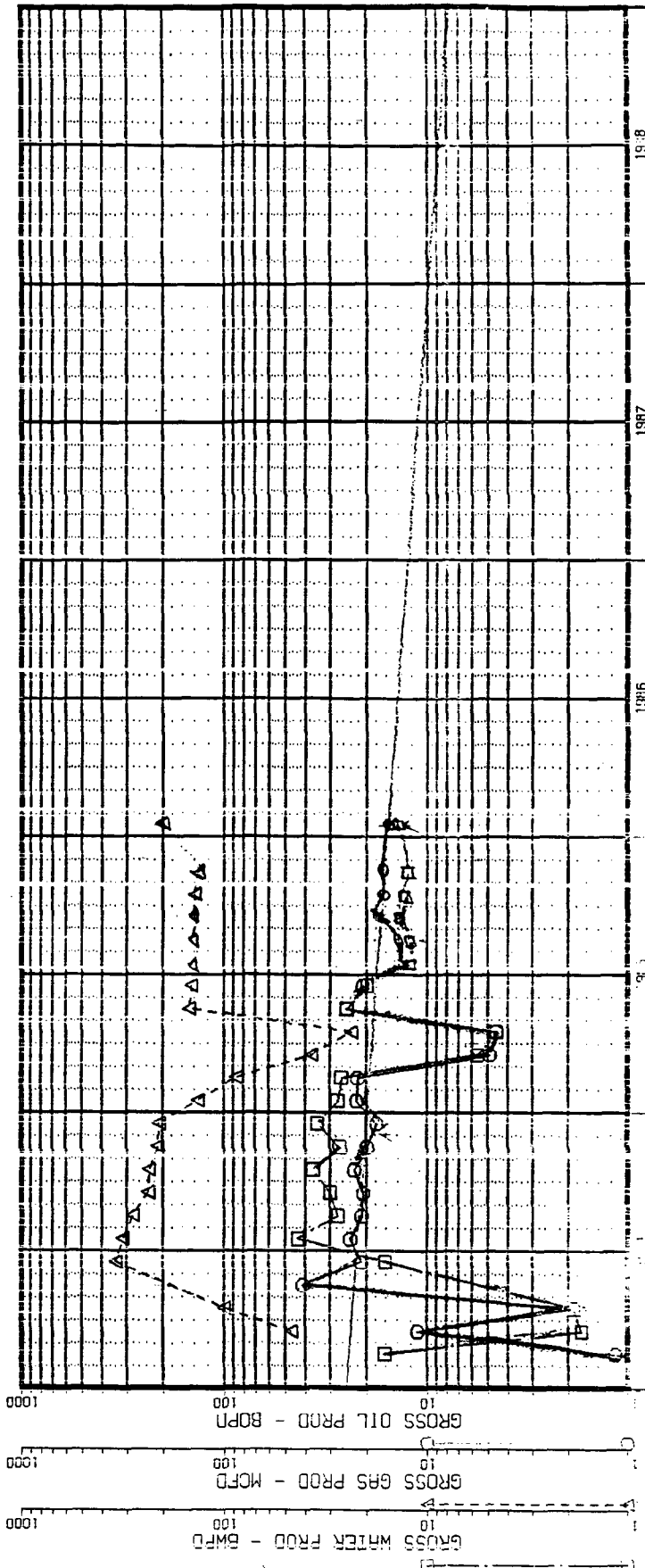
REQUESTOR: HUTCHESO-HOB-02

LOCATION: HOBBS

PERFS:



MAJOR PRODUCT



1986-01-08

TIME

REPORT NUMBER 321

GAS-OIL RATIO TESTS

Operator		Pool	County										
Amoco Production Company		HARDY BLINNEY	LEA										
LEASE NAME		WELL NO.	LOCATION		DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	Completion			Special
		U	S	T						R	WATER BBL.S.	GRAV. OIL	
McQuatters		3	B	11	21	36	1-24-86	21	24	15	16	200	12,500

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.

O+2-NMOC, H 1- File:533.11 1-CMH

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

Robert M. Henry
(Signature)
Administrative Analyst (SE)
(Title) 2/21/86

GAS-OIL RATIO TESTS

Company		Pool		County										
Amoco Production Company		HARDY DRINKARD		LEA										
P. O. Box 68, Hobbs, New Mexico 88240		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐		Special ☒								
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 BBLs.	GRAV. OIL		BBLs.
McQuatters	3	B	11	21	36	1-11-84	D			24	1	1	60	60,000

No well will be assigned an allowable greater than the amount of oil produced on the offset 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.

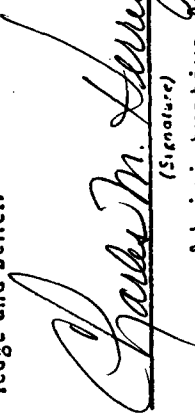
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

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

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 321 and appropriate pool rules.

0+2-NMOC, H 1- File:533.11 1-CMH

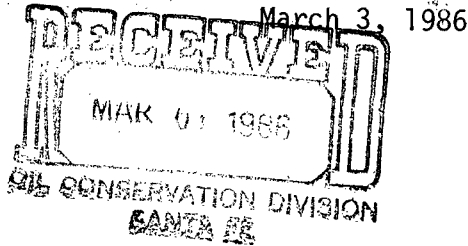
I hereby certify that the above information is true and complete to the best of my knowledge and belief.


(Signature)
Administrative Analyst (SG)
(Title) 2/21/86



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

TONY ANAYA
GOVERNOR



POST OFFICE BOX 1960
HOBBS, NEW MEXICO 88240
(505) 393-6161

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

RE: Proposed:

MC	_____
DHC	☒ _____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Amoco Prod. Co.	McQuatters #3-B	11-21-36
Operator	Lease & Well No.	Unit S-T-R

and my recommendations are as follows:

OK -- Jerry Sexton

Yours very truly,

Jerry Sexton
Supervisor, District 1

/mc