

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER
HOBBS AREA

January 18, 1985

P. O. Box 670
Hobbs, NM 88240

Re: Mattern (NCT-D) #9, 10, & 15

Mr. Richard L. Stamets
Energy and Minerals Department
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:


Your administrative approval is requested for an exception to Rule 303-C to permit down-hole commingling of Drinkard and Tubb Oil and Gas production in the subject wells.

Please find enclosed all pertinent data regarding this application as outlined in Rule No. 303-C.

Yours very truly,


R. C. ANDERSON

DR/skc
Enclosures

cc: 
District I Office
P. O. Box 1980
Hobbs, New Mexico 88240

Offset Operators



A DIVISION OF GULF OIL CORPORATION

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JAN 24 1985

HONOLULU

H. T. Mattern "D" #9
Section 6-T22S-R37E
Lea County, New Mexico

Approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Drinkard and Tubb in the subject well.

The fluids show no evidence of incompatibility; therefore, down-hole commingling is not expected to result in reservoir damage. Ownership in the two pools is common and correlative rights will not be violated.

Currently, the Tubb is pumping and the Drinkard is TA'd. After down-hole commingling existing pumping equipment will be used to produce both zones.

Should secondary recovery operation become practical in the future, the two zones could be separated at such time without damaging either reservoir.

Offset operators are being notified of the intent to down-hole commingle subject well by copy of this application.

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1986 JAN 24

1. Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, New Mexico 88240
 2. Lease, Well and Location: H. T. Mattern "D" #9, 810' FNL and 660' FWL, Section 6-T20S-R37E, Lea County, New Mexico.
 3. Producing Zones: Currently producing from a single completion in the Tubb Pool.
 4. Decline Curve: See attached graphs.
 5. Bottom Hole Pressure: The BHP for the Tubb is 1313 psi. The BHP for the Drinkard is 966 psi.
 6. Fluid Characteristics: Gulf Oil has commingled these fluids at the surface and downhole in offset wells and has encountered no incompatibility problems; therefore, no reservoir damage should result from downhole commingling subject well.
 7. Well History: The well was spudded 8-28-74 and drilled to a total depth of 6800'. Five and one half inch production casing was set at 6800'. The Drinkard was perforated at 6434-6674' with 64 holes. Perfs were acidized with 4000 gallons 15% NEA and fractured with 48,000 gallons gel water with $\frac{1}{2}$ to $1\frac{1}{2}$ pounds sand per gallon.

4-23-76, well was chemical squeezed with 3000 gallons 15% NEFE HCL treated with 3 gallons Tretolite AR-25 and 165 gallons Tretolite SP-203 in the first 1000 gallons acid.

1-5-79, well was equipped to pump.

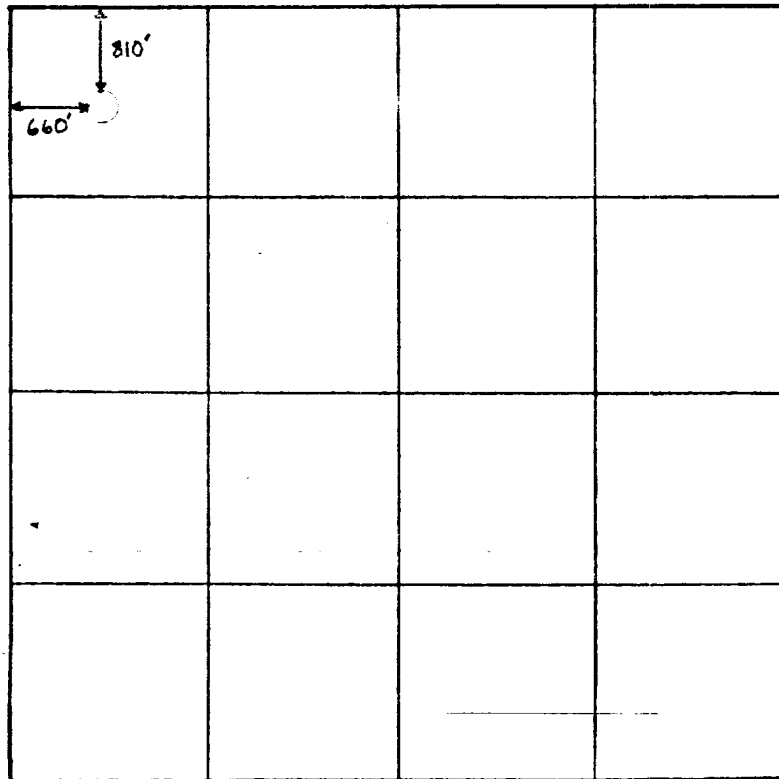
8-25-82, Drinkard was TA'd with a CIBP set at 6350'. The Tubb was perforated at 6146-6306' with 56 holes. Perfs were acidized with 3500 gallons 15% NEFE HCL and fractured with 56,000 gallons and 73,000 pounds 20/40 sand.
 8. Value of Commingled Fluids: The Tubb and Drinkard Zones are being commingled in surface storage facilities on the subject lease per order CTB-254. Therefore, down-hole commingling will not effect the price.
 9. Current Production: See attached State Form C-116.
-

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OFFICE
HONORARY OFFICE

Section 6



H. T. Mattern "D" #9
Section 6-T22S-R37E

Dedicated Acreage
Drinkard: 40 acres
Tubb: 40 acres

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U.S. DEPT. OF
HOUSING & URB. DEV.

SUGGESTED ALLOCATION

Drinkard: 5 BOPD, 7 BWPD, 80 MCFGPD

Average Prod. from Decline Curves

Tubb: 9 BOPD, 10 BWPD, 50 MCFGPD

The proposed allocation of oil and gas production per zone based on the attached decline curves is as follows:

	<u>Drinkard</u>	<u>Tubb</u>
Oil	36%	64%
Gas	62%	38%

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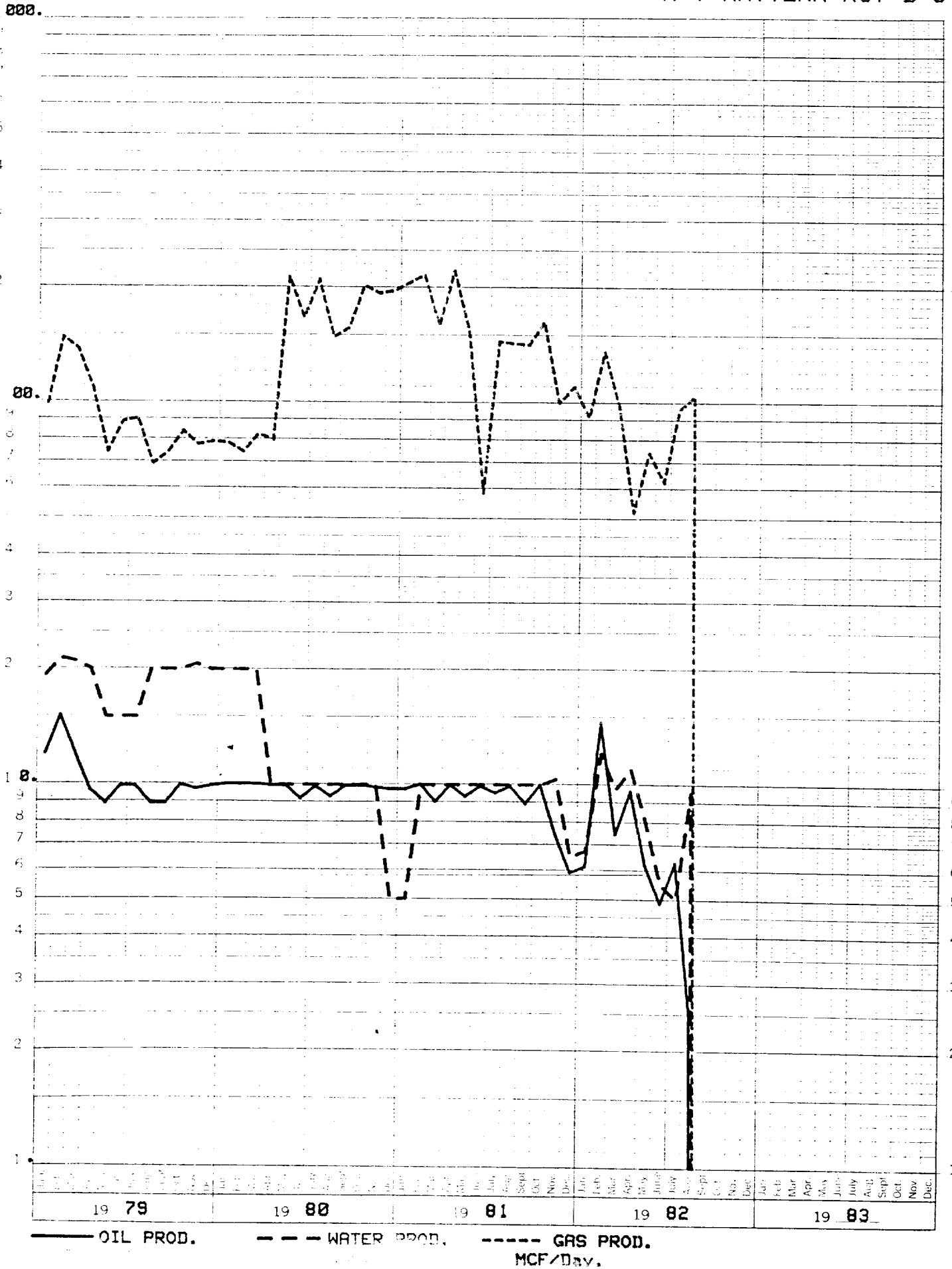
CC
HOLDS THE

DRINKARD

H T MATTERN NCT-D 9

46 6690

5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



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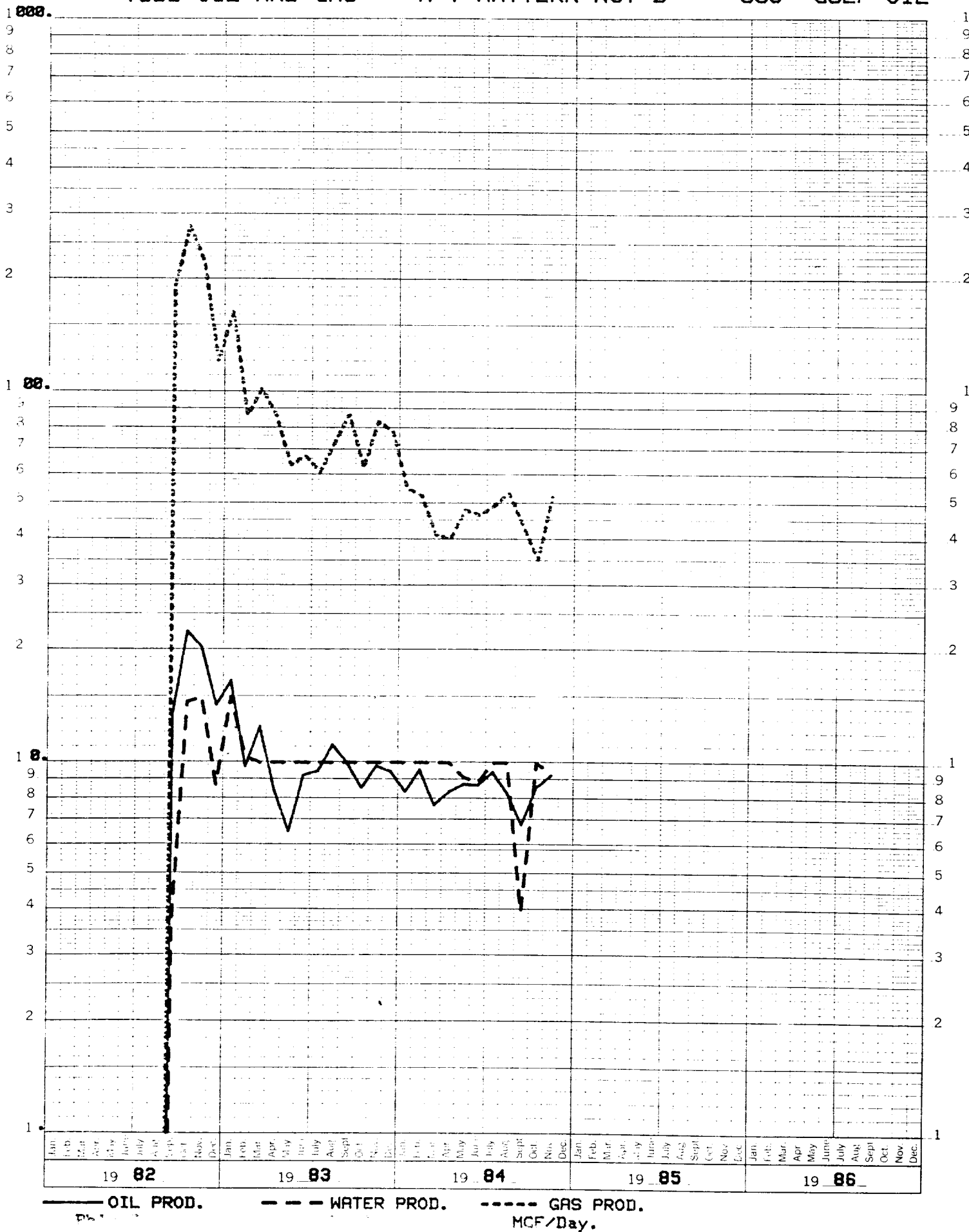
001
H0200 C 7112

TUBB OIL AND GAS

H T MATTERN NCT D

009 GULF OIL

46 6690

K&E 5 YEARS BY MONTHS X 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

REC'D 20

JAN 2 1985

HOUS OFFICE

H. T. Mattern "D" #10
Section 6-T22S-R37E
Lea County, New Mexico

Approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Drinkard and Tubb in the subject well.

The fluids show no evidence of incompatibility; therefore, down-hole commingling is not expected to result in reservoir damage. Ownership in the two pools is common and correlative rights will not be violated.

Currently, the Tubb is pumping and the Drinkard is TA'd. After down-hole commingling, existing pumping equipment will be used to produce both zones.

Should secondary recovery operations become practical in the future, the two zones could be separated at such time without damaging either reservoir.

Offset operators are being notified of the intent to down-hole commingle subject well by copy of this application.

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U.S. HOUSE OF REPRESENTATIVES

1. Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, NM 88240
2. Lease, Well and Location: H. T. Mattern "D" #10, 660' FNL and 1650' FWL, Section 6-T22S-R37E, Lea County, New Mexico.
3. Producing Zones: Currently producing from a single completion in the Tubb Pool.
4. Decline Curve: See attached graphs.
5. Bottom Hole Pressure: The estimate BHP for the Tubb is 1313 psi. The estimated BHP for the Drinkard is 966 psi.
6. Fluid Characteristics: Gulf Oil has commingled these fluids at a surface and down-hole in offset wells and has encountered no incompatibility problems; therefore, no reservoir damage should result from down-hole commingling the subject well.
7. Well History: The well was spudded 4-25-75 and drilled to a total depth of 6800'. Five and one half inch production casing was set at 6799'. The Drinkard was perforated at 6456-6700' with 56 holes. Perfs were acidized with 5250 gallons 15% NEA and fractured with 32,000 gallons gel water with 1 to 2 pounds sand per gallon. After stimulation, well was equipped to pump.

5-12-76, well was chemical squeezed with 3000 gallons 15% NEFE HCL treated with 3 gallons Tretolite AR-25 and 165 gallons Tretolite SP-203 in the first 1000 gallons acid.

4-7-78, Well was equipped to pump.

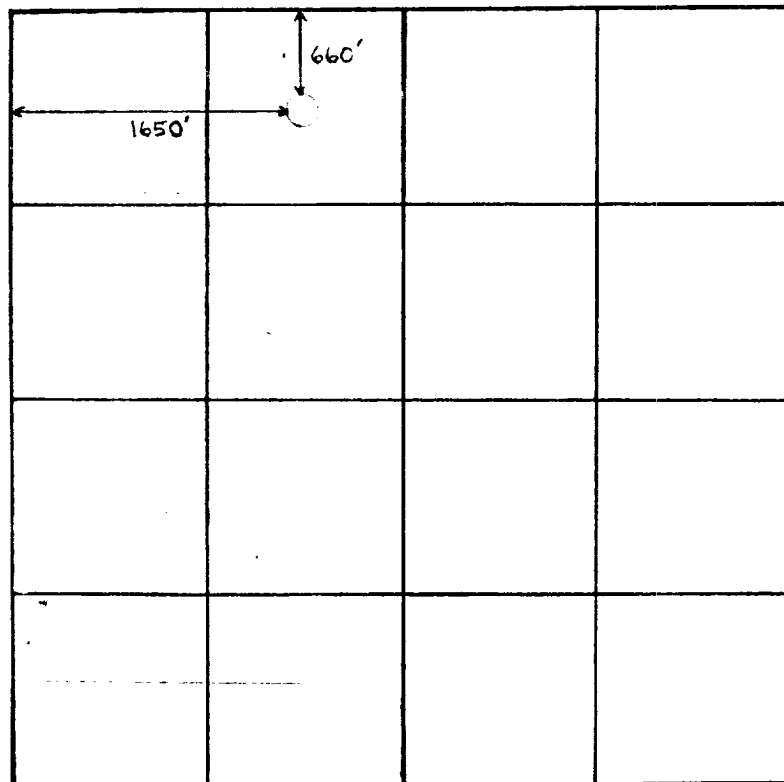
11-9-82, Drinkard was TA'd with a CIBP set at 6400'. The Tubb was perforated at 6184-6334' with 48 holes. Perfs were acidized with 3000 gallons 15% NEFE HCL and fractured with 48,000 gallons and 63,000 pounds 20/40 sand.
8. Value of Commingled Fluids: The Tubb and Drinkard Zones are being commingled in surface storage facilities on the subject lease per order CTB-254. Therefore, down-hole commingling will not effect the price.
9. Current Production: See attached State Form C-116.

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6-11
HOME OFFICE

Section 6



H. T. Mattern "D" #10
Section 6-T22S-R37E

Dedicated Acreage
Drinkard: 40 acres
Tubb: 40 acres

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U.S. DEPT. OF JUSTICE
HOSBERRY OFFICE

SUGGESTED ALLOCATION

Drinkard: 11 BOPD, 15 BWPD, 85 MCFGPD

Average Prod. from Decline Curves

Tubb: 11 BOPD, 4 BWPD, 25 MCFGPD

The proposed allocation of oil and gas production per zone based on the attached decline curves is as follows:

	<u>Drinkard</u>	<u>Tubb</u>
Oil	50%	50%
Gas	77%	23%

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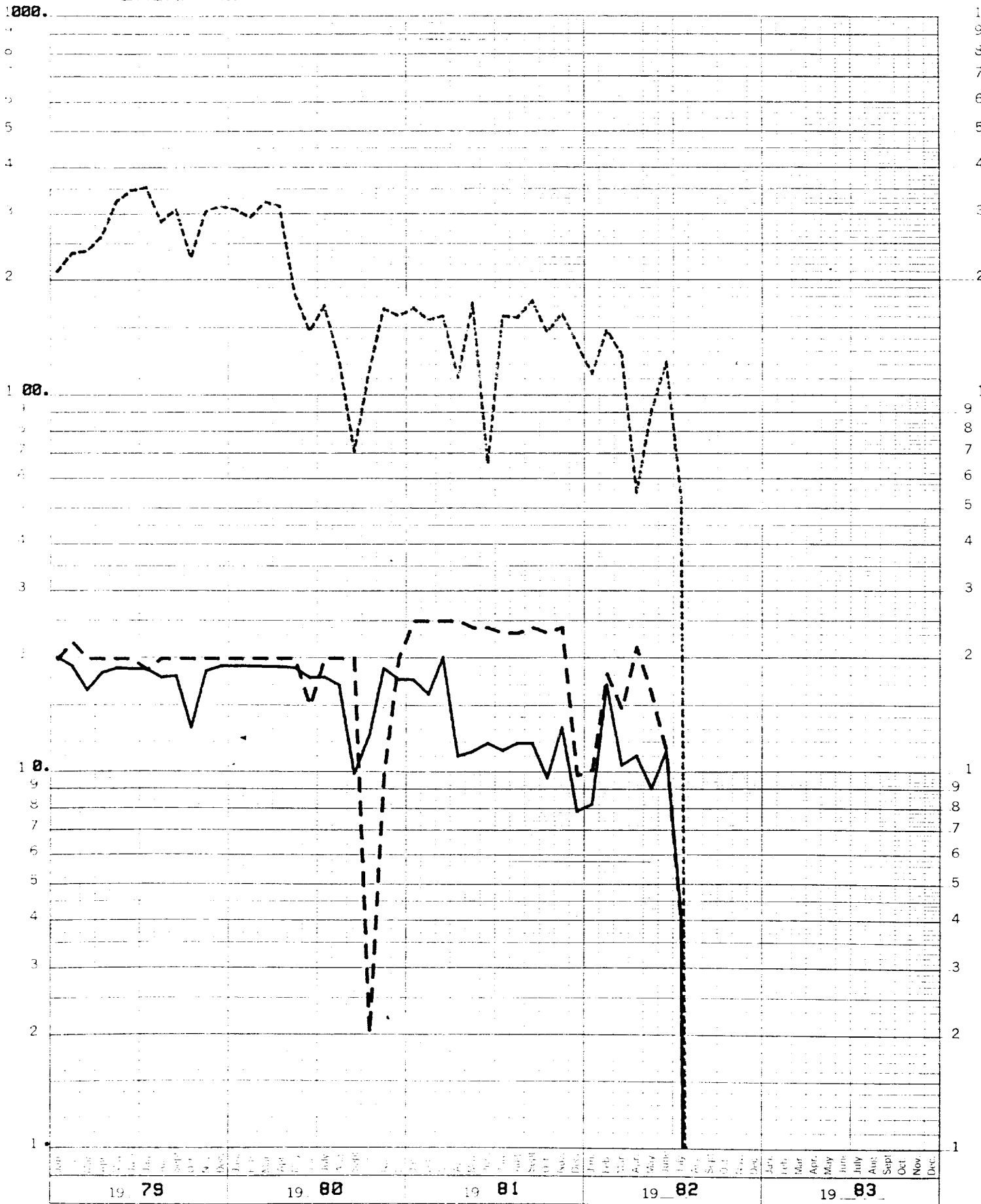
OLD
HOUSE OFFICE

DRINKARD

H T MATTERN NCT-D 10

46 6690

5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFEL & ESSER CO. MADE IN U.S.A.



19 79 19 80 19 81 19 82 19 83
 Bbls/Day. Bbls/Day. MCF/Day.
 Mult. Scale X 1 Mult. Scale X 1 Mult. Scale X 1

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C. C. C.
HODGE CHAIR

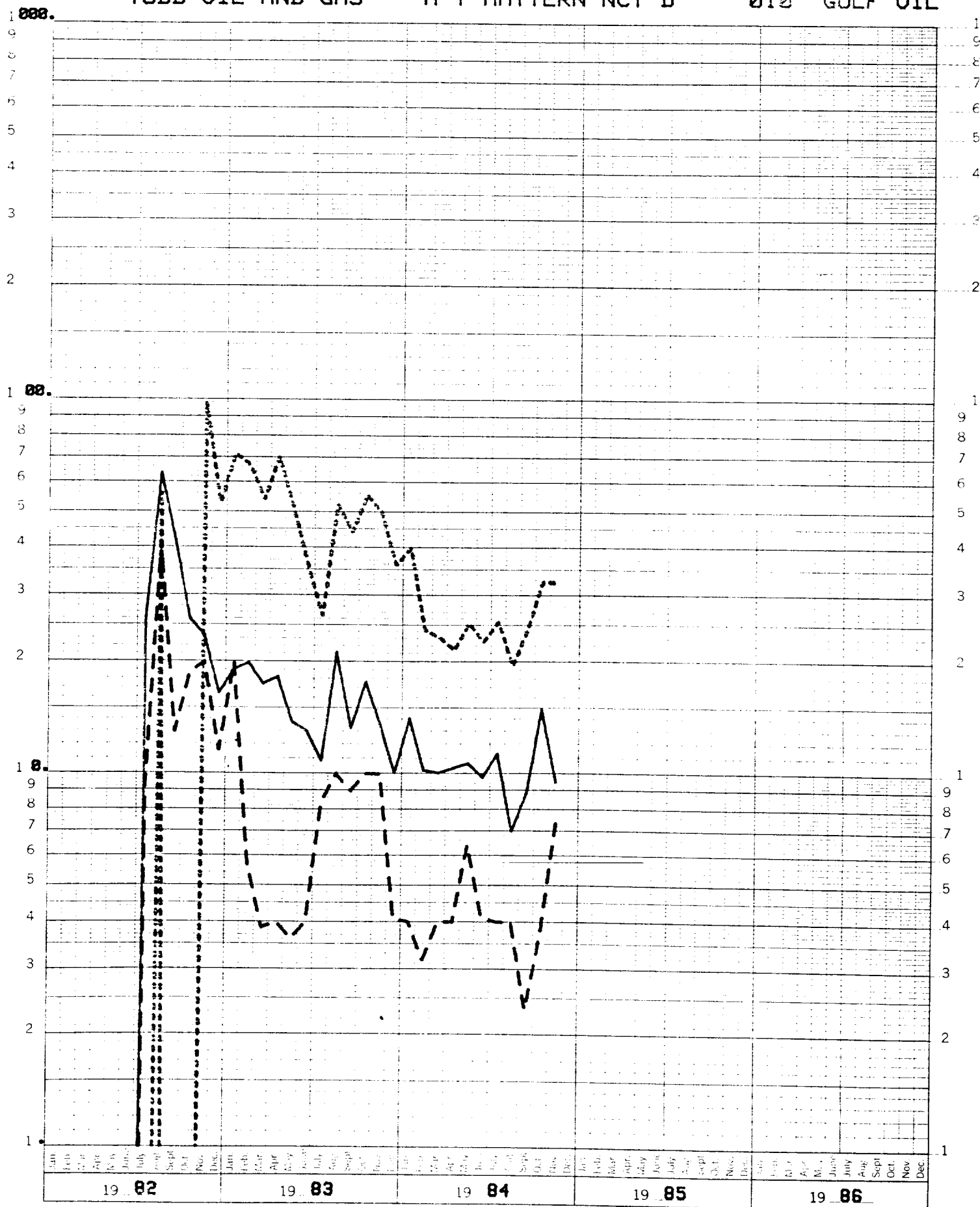
TUBB OIL AND GAS

H T MATTERN NCT D

010 GULF OIL

46 6690

5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MAINT. U.S.A.



— OIL PROD.
Bbls/Day.

- - - WATER PROD.
Bbls/Day.

..... GAS PROD.
Mscf/Day.

1982

1983

1984

1985

1986

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JAN 24 1981

CCO
HODGE CTR 22

H. T. Mattern "D" #15
Section 7-T22S-R37E
Lea County, New Mexico

Approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Drinkard and Tubb in the subject well.

The fluids show no evidence of incompatibility; therefore, down-hole commingling is not expected to result in reservoir damage. Ownership in the two pools is common and correlative rights will not be violated.

Currently, the Tubb is pumping and the Drinkard is TA'd. After down-hole commingling, existing pumping equipment will be used to produce both zones.

Should secondary recovery operation become practical in the future, the two zones could be separated at such time without damaging either reservoir.

Offset operators are being notified of the intent to down-hole commingle subject well by copy of this application.

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6/10
HOBBS CIRCLE

1. Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, NM 88240
2. Lease, Well and Location: H. T. Mattern "D" #15, 400' FNL and 860' FWL, Section 7-T22S-R37E, Lea County, New Mexico.
3. Producing Zones: Currently producing from a single completion in the Tubb Pool.
4. Decline Curve: See attached graphs.
5. Bottom Hole Pressure: The estimated BHP for the Tubb is 1313 psi. The estimated BHP for the Drinkard is 966 psi.
6. Fluid Characteristics: Gulf Oil has commingled these fluids at the surface and down-hole in offset wells and has encountered no incompatibility problems; therefore, no reservoir damage should result from down-hole commingling subject well.
7. Well History: The well was spudded 8-13-75 and drilled to a total depth of 6710'. Five and one half inch production casing was set at 6710'. The Drinkard was perforated at 6516-6658' with 48 holes. Perfs were acidized with 1240 gallons 15% NEA and fractured with 42,000 gallons gel water with 1 to 2 pounds sand per gallon. After stimulation, well was equipped to pump.

8-5-76, well was chemical squeezed with 3000 gallons 15% NEFE HCL treated with 3 gallons Tretolite AR-25 and 220 gallons Tretolite SP-203 in the first 1000 gallons acid.

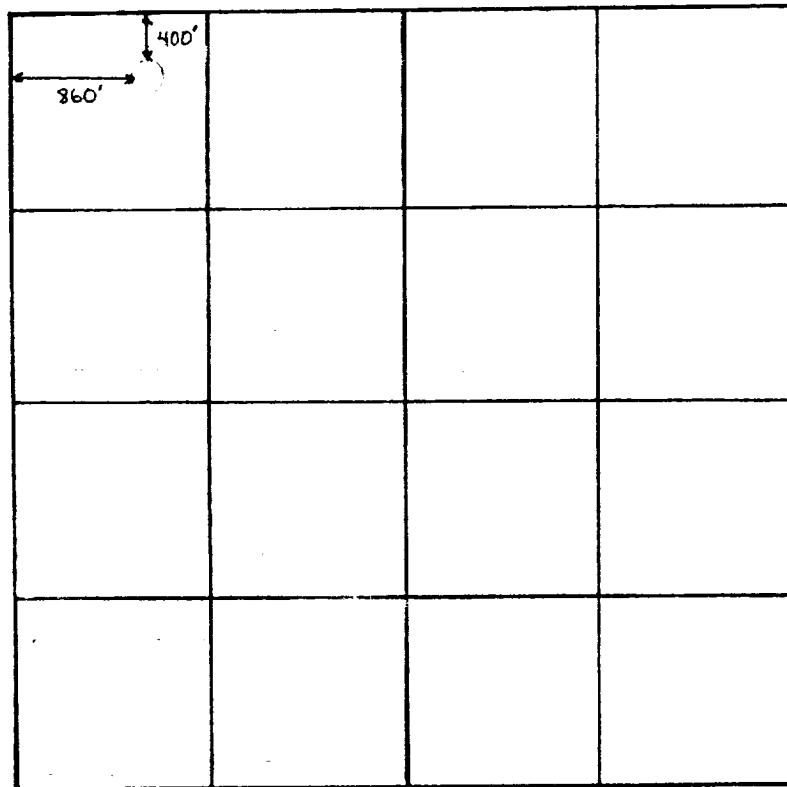
11-9-82, Drinkard was TA'd with a CIBP set at 6430'. The Tubb was perforated at 6210-6340' with 32 holes. Perfs were acidized with 3000 gallons 15% NEFE HCL and fractured with 41,600- gallons and 44,000 pounds 20/40 sand.
8. Value of Commingled Fluids: The Tubb and Drinkard Zones are being commingled in surface storage facilities on the subject lease per order CTB-254. Therefore, down-hole commingling will not effect the price.
9. Current Production: See attached State Form C-116.

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Section 7



H. T. Mattern "D" #15
Section 7-T22S-R37E

Dedicated Acreage
Drinkard: 40 acres
. Tubb: 40 acres

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HOME OFFICE

SUGGESTED ALLOCATION

Drinkard: 5 BOPD, 10 BWPD, 20 MCFGPD

Tubb: 3 BOPD, 8 BWPD, 45 MCFGPD

Average Prod. from Decline Curves

The proposed allocation of oil and gas production per zone based on the attached decline curves is as follows:

	<u>Drinkard</u>	<u>Tubb</u>
Oil	63%	37%
Gas	31%	69%

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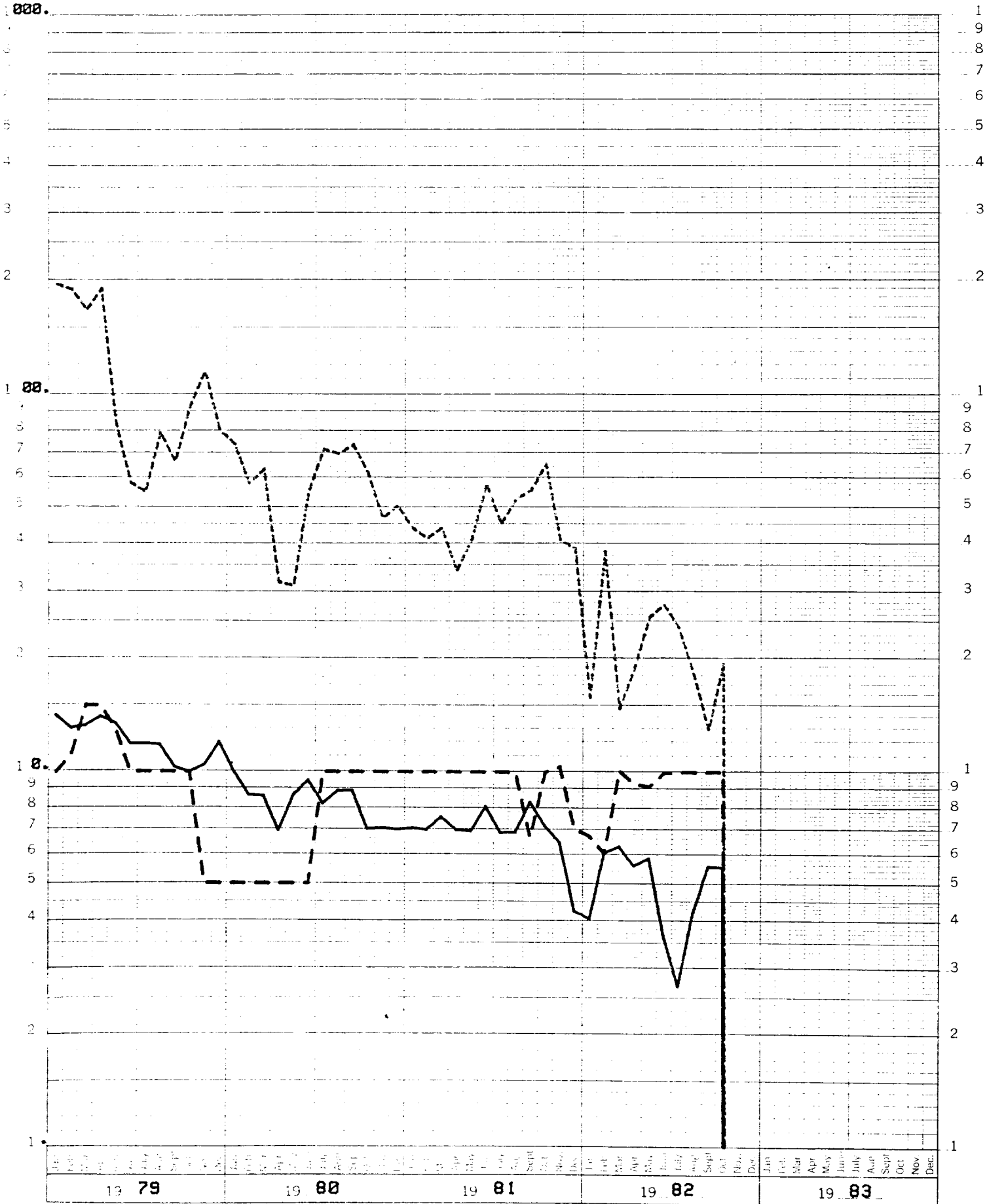
U.S. DEPT. OF JUSTICE
HONORABLE JUDGE

DRINKARD

H T MATTERN NCT-D 15

46 6690

5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



— OIL PROD. Bbls/Day.
 --- WATER PROD. Bbls/Day.
 GAS PROD. MCF/Day.

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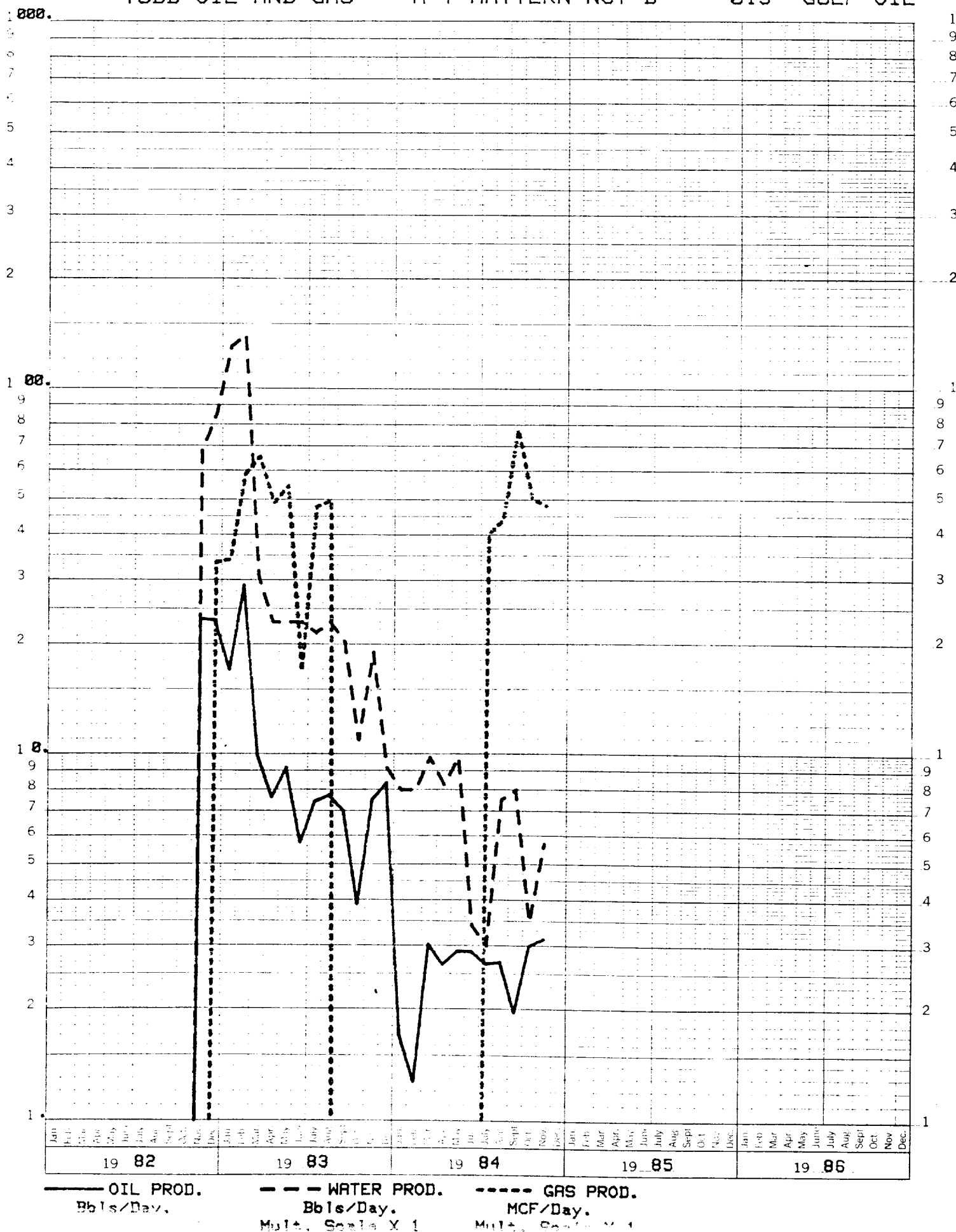
OFFICE
HONORARY CLERK

TUBB OIL AND GAS

H T MATTERN NCT D

Ø15 GULF OIL

46 6690

KE 5 YEARS BY MONTHS X 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

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JAN 24 1945

U.S. AIR FORCE
HOLDS OFFICE

GAS-OIL RATIO TESTS

Company

Gulf Oil Corp.

Field

Drinkard

County

Lea

Address

Box 670, Hobbs, NM 88240

TYPE OF TEST - (X)

Scheduled ☒

Companion ☐

Spontaneous ☐

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TGB. PRESS.	DAILY ALLOW. ABL	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./
		U	S	T	R						WATER BLS.	GRAV. OIL	OIL BLS.	GAS M.C.F.	
H.T. Mattern (NCT-D)	9		6	22	37	8-23-82					10		3	71	236
	10		6	22	37	7-7-82					10		5	128	256
	15		7	22	37	11-3-82					10		10	107	1070

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 allowable when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 14.725 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 331 and appropriate pool rules.

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

Alfred H. Kirk
(Signature)

Engineer
10-23-84

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U.S. DEPT. OF JUSTICE
HONORARY ATTORNEY GENERAL

GAS-OIL RATIO TESTS

Operator		Address		Pool		County						
Gulf Oil Corp		P.O. Box 670, Hobbs, NM 88240		Tubb Oil and Gas		Lea						
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TYPE OF TEST - (X)	Scheduled <input checked="" type="checkbox"/>	Completion <input type="checkbox"/>	Special <input type="checkbox"/>		
		U	S	T	R							
H.T. Mattern (NCT-D)	9	6	22	37	12/5/84							
	10	6	22	37	12/6/84							
	15	7	22	37	12/10/84							
						CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST		GAS - OIL RATIO CU.FT/5
									WATER BBL'S	GRAV. OIL BBL'S	GAS M.C.F.	
									9	7	101	14,42
									5	5	72	14,41
									16	8	77	9,16

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 allowances 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 331 and appropriate pool rules.

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

David Rich
Engineer (True)
1-18-85

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U.S. DEPT.
HOMER OFFICE

OFFSET OPERATORS

H. T. MATTERN (NCT-D) LEASE

Continental Oil Co.
P. O. Box 460
Hobbs, New Mexico 88240

Getty Oil Co.
P. O. Box 249
Hobbs, New Mexico 88240

Yarborough Oil Co.
P. O. Box 1001
Eunice, New Mexico 88231

Petro Lewis
P. O. Box 509
Levelland, Texas 79336

ARCO Oil & Gas
P. O. Box 1610
Midland, Texas 79701

Amerada Hess Corporation
P. O. Drawer 817
Seminole, Texas 79360

Sun Oil Co.
P. O. Box 1861
Midland, Texas 79701

Sohio Petroleum Co.
P. O. Box 3000
Midland, Texas 79701

Shell Oil Co.
P. O. Box 1509
Midland, Texas 79701

El Paso Natural Gas Co.
600 Building of the Southwest
Midland, Texas 79701

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JAN 24 1935

G. C. C.
HOLDS OFFICE