

AMERADA HESS CORPORATION

August 22, 1984

P. O. DRAWER "D"
MONUMENT, NEW MEXICO 88265

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

Re: A. B. Baker #3, Unit H, Sec. 10, T-22S, R-37E
A. B. Baker #4, Unit P, Sec. 10, T-22S, R-37E

Request to downhole commingle the Tubb/Drinkard
and the Blinebry/Drinkard Gas Zones.

Dear Sir:

Amerada Hess Corporation is requesting approval for an exception to Rule 303-C to permit the downhole commingling of the Tubb and Drinkard gas zones in the A. B. Baker #3 and the Blinebry and Drinkard gas zones in the A. B. Baker #4. Permission to dually complete these wells was authorized by administrative orders MC-2085 and MC-2072, respectively.

In the A. B. Baker #3, the Tubb zone is perforated from 5960'-6135' and the Drinkard zone from 6205'-6404'. In 1984, both zones have made more fluid than in previous years and gas flow rates have decreased. If downhole permission to commingle is received this well will be placed on sucker rod pump to effectively lift formation fluids from the wellbore resulting in increased gas flow rates. The A. B. Baker #4 is perforated in the Blinebry zone from 5422'-5686' and in the Drinkard zone from 6220'-6473'. The Drinkard side of this wellbore is temporarily abandoned due to 1100' of fluid on the formation face which has killed the gas flow. Before the fluid encroachment the Drinkard zone was capable of producing 20,000 to 30,000 MCFPM. With the approval to downhole commingle, this well will also be placed on sucker rod pump to remove formation fluids. This will result in a significant increase in gas production from this wellbore.

Shut-in pressures from packer leakage tests and fluid levels revealed from acoustic well sounders were utilized to determine bottom hole pressures. These results are presented below.

A. B. Baker #3	Tubb Gas	SBHP = 364 psia
A. B. Baker #3	Drinkard Gas	SBHP = 234 psia
A. B. Baker #4	Blinebry Gas	SBHP = 497 psia
A. B. Baker #4	Drinkard Gas	SBHP = 376 psia

These pressures are corrected to a common datum and the small pressure differences between zones indicate no crossflow problems will exist. Details of the method used to derive these figures is attached with this proposal.

The fluid characteristics of each zone are similar and there is no indication there will be incompatibility problems in the wellbore.

The value of the commingled production will not be less than the sum of the values of the individual streams since Amerada Hess is receiving \$1.10/MCF for the gas from all zones in consideration in both wellbores.

To figure the allocation of production to each zone, decline curves were used. This method revealed the following and details of it are attached.

Production Allocations To Each Zone:

A. B. Baker #3	Tubb	4%
A. B. Baker #3	Drinkard	96%
A. B. Baker #4	Blinebry	13%
A. B. Baker #4	Drinkard	87%

The ownership of the zones to be commingled is common with respect to working interest, royalty and overriding royalty.

All offset operators have been notified of this proposal by receipt of this recommendation. If you have any questions concerning this matter, please contact me.

Respectfully,

D. W. Holmes

D. W. Holmes
Sr. Petroleum Engineer

AMERADA HESS CORPORATION
Drawer "D"
Monument, New Mexico 88265

Phone: (505-393-2144)

DWH/dg

Enclosures:

XC: Division Director (2)
Hobbs District Office
Offset Operators
File

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KOZEE OFFICE

OFFSET OPERATORS

Gulf Oil
Gulf Building
Midland, Texas 79702

Getty Oil
Box 1231
Midland, Texas 79702

Marathon
Box 552
Midland, Texas 79702

Exxon Company, USA
Box 1600
Midland, Texas 79701

John H. Hendrix
525 Midland Tower
Midland, Texas 79701

Sun Production Company
Two Lincoln Centre
Dallas, Texas 75240

Anadarko Production Co.
Box 2497
Midland, Texas 79702

Sun Texas Co.
1700 One Main Place
Dallas, Texas 75250

Robert L. Parker
Eight East Third
Tulsa, Oklahoma 74103

CALCULATION OF
STATIC BOTTOM-HOLE PRESSURES

Equations To Be Used:

$$P_{sfs} = P_{whs} \times e^{c/\bar{z}} \quad \text{Where: } c = \frac{(\gamma g)(TVD)}{53.34 \bar{T}}$$

P_{sfs} = Static sandface pressure, psia

P_{whs} = Static wellhead pressure, psia

e = 2.7183

γg = Gas gravity

TVD = True vertical depth, feet

\bar{T} = Average temperature, °R

\bar{z} = Average compressibility factor

Assumptions:

P_{atm} = 13.025 psia

Temp. Grad. = 0.017 °F/ft.

Avg. Surf. Temp. = 60°F

γg = 0.70

A. B. Baker #3

Tubb Zone:

γg = 0.70

P_{whs} = 310 psia from pkr. leak. test

TVD = 6,048' (mid perfs.)

\bar{T} = $(60 + 103)(1 = 82°F = 542°R)$

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L. J. COOKE
LIBRARY DIRECTOR

$$c = \frac{(0.7)(6048)}{53.34(542)} = 0.146$$

$$P_{pc} = 668 \text{ psia} \quad T_r = 542/390 = 1.39$$

$$T_{pc} = 390^\circ R$$

Assume: $P_{sfs} = 360 \text{ psia}$ $\bar{P} = (360 + 310)/2 = 335 \text{ psia}$

$$P_r = 335/668 = 0.50 \quad \therefore \bar{z} = 0.938$$

$$P_{sfs} = (310) e^{.146/.938} = 362 \text{ psia}$$

Assume: $P = (362 + 310)/2 = 336 \text{ psia}$

$$P_r = 336/668 = 0.50 \quad \therefore \bar{z} = 0.938$$

$$P_{sfs} = (310) e^{.146/.938} = 362 \text{ psia}$$

$P_{sfs} = 362 \text{ psia for Tubb zone}$

Drinkard Zone:

$$\gamma_g = 0.70$$

$$P_{whs} = 200 \text{ psia from pk. leak test}$$

$$TVD = 6305' \text{ (mid perfs.)}$$

$$\bar{T} = (60 + 107)/2 = 84^\circ F = 544^\circ R$$

$$C = \frac{(0.7)(6305')}{53.34(544)} = 0.152$$

$$P_{pc} = 668 \text{ psia} \quad T_r = 544/390 = 1.39$$

$$T_{pc} = 390^\circ R$$

Assume: $P_{sfs} = 250 \text{ psia}$ $\bar{P} = (250 + 200)/2 = 225 \text{ psia}$

$$P_r = 225/668 = 0.34 \quad \therefore \bar{z} = 0.950$$

$$P_{sfs} = (200) e^{.152/.95} = 235 \text{ psia}$$

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C. G. G.
WORLD SERVICE

Assume: $\bar{P} = (235+200)/2 = 218 \text{ psia}$
 $P_r = 218/668 = 0.33 \therefore \bar{z} = 0.960$
 $P_{sfs} = (200) e^{-152/.96} = 234 \text{ psia}$
 $P_{sfs} = 234 \text{ psia for Drinkard zone}$

To correct Tubb press. to common datum of 6305':

$$\bar{T} = (82 + 84)/2 = 83^\circ\text{F} = 543^\circ\text{R}$$

$$P_{pc} = 668 \text{ psia} \quad T_r = 543/390 = 1.39$$

$$T_{pc} = 390^\circ\text{R}$$

$$c = \frac{(0.7)(257)}{53.34(543)} = 0.0062$$

Assume: $P_{sfs} = 365 \text{ psia} \quad \bar{P} = (365 + 362)/2 = 364 \text{ psia}$
 $P_r = 364/668 = 0.54 \quad \therefore \bar{z} = 0.935$
 $P_{sfs} = (362)e^{-.0062/.935} = 364 \text{ psia}$

$P_{sfs} = 364 \text{ psia for Tubb zone at common datum of 6305'}$

Tubb zone SBHP at 6305' = 364 psia
 Drinkard zone SBHP at 6305' = 234 psia

A. B. Baker #4

Blinebry Zone:

$$\gamma_g = 0.70$$

$$P_{whs} = 420 \text{ psia from pkr. leak. test}$$

$$TVD = 5564' (\text{mid perfs.})$$

$$\bar{T} = (60 + 95)/2 = 78^\circ\text{F} = 538^\circ\text{R}$$

$$c = \frac{(0.7)(5564)}{53.34(538)} = 0.136$$

$$P_{pc} = 668 \text{ psia} \quad T_r = 538/390 = 1.38$$

$$T_{pc} = 390^\circ\text{R}$$

Assume: $P_{sfs} = 470 \text{ psia}$ $\bar{P} = (470+420)/2 = 445 \text{ psia}$

$$P_r = 445/668 = 0.67 \quad \therefore \bar{z} = 0.918$$

$$P_{sfs} = (420) e^{-.136/.918} = 487 \text{ psia}$$

Assume: $\bar{P} = (487 + 420)/2 = 454 \text{ psia}$

$$P_r = 454/668 = 0.68 \quad \therefore \bar{z} = 0.917$$

$$P_{sfs} = (420) e^{-.136/.917} = 487 \text{ psia}$$

$P_{sfs} = 487 \text{ psia}$ for Blinebry zone

Drinkard Zone:

This gas zone has been TA'd since 1979. It is capable of producing gas at high volumes as long as formation fluids are removed from the wellbore. An acoustic well sounder has revealed 1073' of fluid in the hole. Using a 45°API oil gravity and 0 psi tubing pressure, the bottom hole static pressure in the Drinkard zone in this well is 376 psi.

To correct Blinebry press. to common datum of 6347'

$$\bar{T} = (78 + 108)/2 = 93^{\circ}\text{F} = 553^{\circ}\text{R}$$

$$P_{pc} = 668 \text{ psia} \quad T_r = 553/390 = 1.42$$

$$T_{pc} = 390^{\circ}\text{R}$$

$$c = \frac{(0.7)(783)}{53.34(553)} = 0.019$$

Assume: $P_{sfs} = 500 \text{ psia}$ $\bar{P} = (500 + 487)/2 = 494 \text{ psia}$

$$P_r = 494/668 = 0.74 \quad \therefore \bar{z} = 0.910$$

$$P_{sfs} = (487) e^{-.019/.910} = 497 \text{ psia}$$

$P_{sfs} = 497 \text{ psia}$ for Blinebry zone at common datum of 6347'.

Blinebry zone SBHP at 6347' = 497 psia

Drinkard zone SBHP at 6347' = 376 psia

Allocation Of Production To Each Zone

A. B. Baker #3

Decline Rate Computations:

Tubb Zone

$$\begin{aligned} q_i &= 670 \text{ MCF/mo.} \\ q &= 330 \text{ MCF/mo.} \\ t &= 4 \text{ years} \end{aligned}$$

$$\begin{aligned} a_N &= \ln \frac{(670/330)}{4} \\ a_N(\text{Tubb}) &= 0.17705/\text{yr.} \end{aligned}$$

Drinkard Zone

$$\begin{aligned} q_i &= 14,000 \text{ MCF/mo.} \\ q &= 8,400 \text{ MCF/mo.} \\ t &= 4 \text{ years} \end{aligned}$$

$$\begin{aligned} a_N &= \ln \frac{(14,000/8,400)}{4} \\ a_N(\text{Drink.}) &= 0.12771/\text{yr.} \end{aligned}$$

Tubb/Drinkard Combined

$$\begin{aligned} q_i &= 14,670 \text{ MCF/mo.} \\ q &= 8,730 \text{ MCF/mo.} \\ t &= 4 \text{ years} \end{aligned}$$

$$\begin{aligned} a_N &= \ln \frac{(14,670/8,730)}{4} \\ a_N(\text{Comb.}) &= 0.12976/\text{yr.} \end{aligned}$$

Actual Allocation:

$$\begin{aligned} X &= \text{Tubb Allocation} \\ X-1 &= \text{Drinkard Allocation} \end{aligned}$$

$$\begin{aligned} 0.12976 &= (X)(0.17705) + (1-X)(0.12771) \\ 0.12976 &= (X)(0.17705) + (0.12771) - (X)(0.12771) \\ 0.00205 &= (X)(0.04934) \end{aligned}$$

$$\begin{aligned} X &= 0.04155 \\ 1-X &= 0.95845 \end{aligned}$$

Therefore:

$$\begin{aligned} \text{Tubb Production Allocation} &= 4\% \\ \text{Drinkard Production Allocation} &= 94\% \end{aligned}$$

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ROBERT D. COOPER
POLICE OFFICE

Allocation Of Production To Each Zone

A. B. Baker #4

Decline Rate Computations:

Blinebry Zone

$$\begin{aligned} q_i &= 7,200 \text{ MCF/mo.} \\ q &= 1,900 \text{ MCF/mo.} \\ t &= 4 \text{ years} \end{aligned}$$

$$\begin{aligned} a_N &= \ln \frac{(7,200/1,900)}{4} \\ a_{N(Blin.)} &= 0.33306/\text{yr.} \end{aligned}$$

Drinkard Zone

$$\begin{aligned} q_i &= 30,000 \text{ MCF/mo.} \\ q &= 23,700 \text{ MCF/mo.} \\ t &= 4 \text{ years} \end{aligned}$$

$$\begin{aligned} a_N &= \ln \frac{(30,000/23,700)}{4} \\ a_{N(Drink.)} &= 0.05893/\text{yr.} \end{aligned}$$

Blinebry/Drinkard Combined

$$\begin{aligned} q_i &= 37,200 \text{ MCF/mo.} \\ q &= 25,600 \text{ MCF/mo.} \\ t &= 4 \text{ years} \end{aligned}$$

$$\begin{aligned} a_N &= \ln \frac{(37,200/25,600)}{4} \\ a_{N(Comb.)} &= 0.09343/\text{yr.} \end{aligned}$$

Actual Allocation:

$$\begin{aligned} X &= \text{Blinebry zone} \\ X-1 &= \text{Drinkard zone} \end{aligned}$$

$$\begin{aligned} 0.09343 &= (X)(0.33306) + (1-X)((0.05893)) \\ 0.09343 &= (X)(0.33306) + (0.05893) - (X)(0.05893) \\ 0.03450 &= (X)(.27413) \end{aligned}$$

$$\begin{aligned} X &= 0.12585 \\ 1-X &= 0.87415 \end{aligned}$$

Therefore:

$$\begin{aligned} \text{Blinebry Production Allocation} &= 13\% \\ \text{Drinkard Production Allocation} &= 87\% \end{aligned}$$

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Equations Used:

Decline Rates

$$a_N = \frac{q_i/q}{t}$$

a_N = nominal decline, per yr.

q_i = initial rate, MCF/mo.

q = later rate, MCF/mo.

t = time between rates, yrs.

Allocation

$a_{N(Comb.)}$ = Combined decline rates

$a_{N(Blin.)}$ = Blinebry decline rate

$a_{N(Drink.)}$ = Drinkard decline rate

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STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P.O. BOX 2048
SANTA FE, NEW MEXICO 87501

GAS - OIL RATIO TESTS

Form C-116
Revised 10-1-78

Amerada Hess Corporation

Drawer "D", Monument, New Mexico 88265

pool
Blinney (Pro Gas)County
Lea

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TSG. PRESS.	DAILY ALLOWABLE	PROD. DURING TEST			GAS - OIL RATIO
		U	S	T	R						WATER BBLs.	GRAV. OIL BBLs.	GAS MC.F.	
A. S. Baker	4	P	10	22-S	37-E	8-15-84	F	2"	-	66	24	0	-	35

No well will be assigned an allowable greater than the amount of oil produced on the official test. During gasoil ratio tests, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which wells are 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 15,023 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 301 and appropriate pool rules.

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

A. W. Elkins
(Signature)

Sr. Petroleum Engineer

8-15-84

(Title)

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
PO BOX 2018
SANTA FE, NEW MEXICO 87501

GAS - OIL RATIO TESTS

Form C-116
Revised 10-1-7834000
Drawer "D", Monument, New Mexico 88265Pool
Tubb (Pro Gas)County
Lea

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL		
		U	S	T	R						GRAV.	OIL BBL'S.	GAS M.C.F.			
A. B. Baker	3	I	10	22-S	37-E	8-15-84	F	2"	-	9	24	0	-	0	8	-

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 15,000 psia and a temperature of 60° F. Specific gravity base will be 0.85.

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

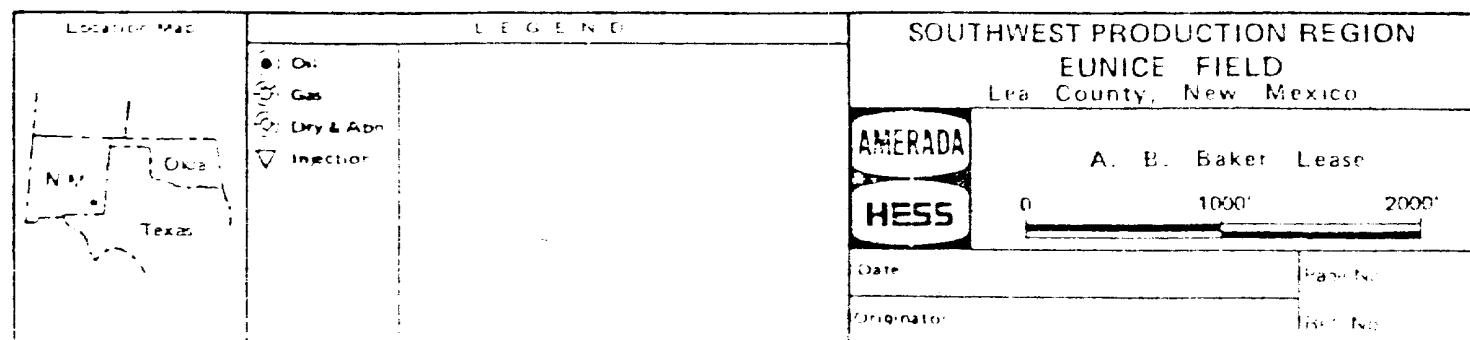
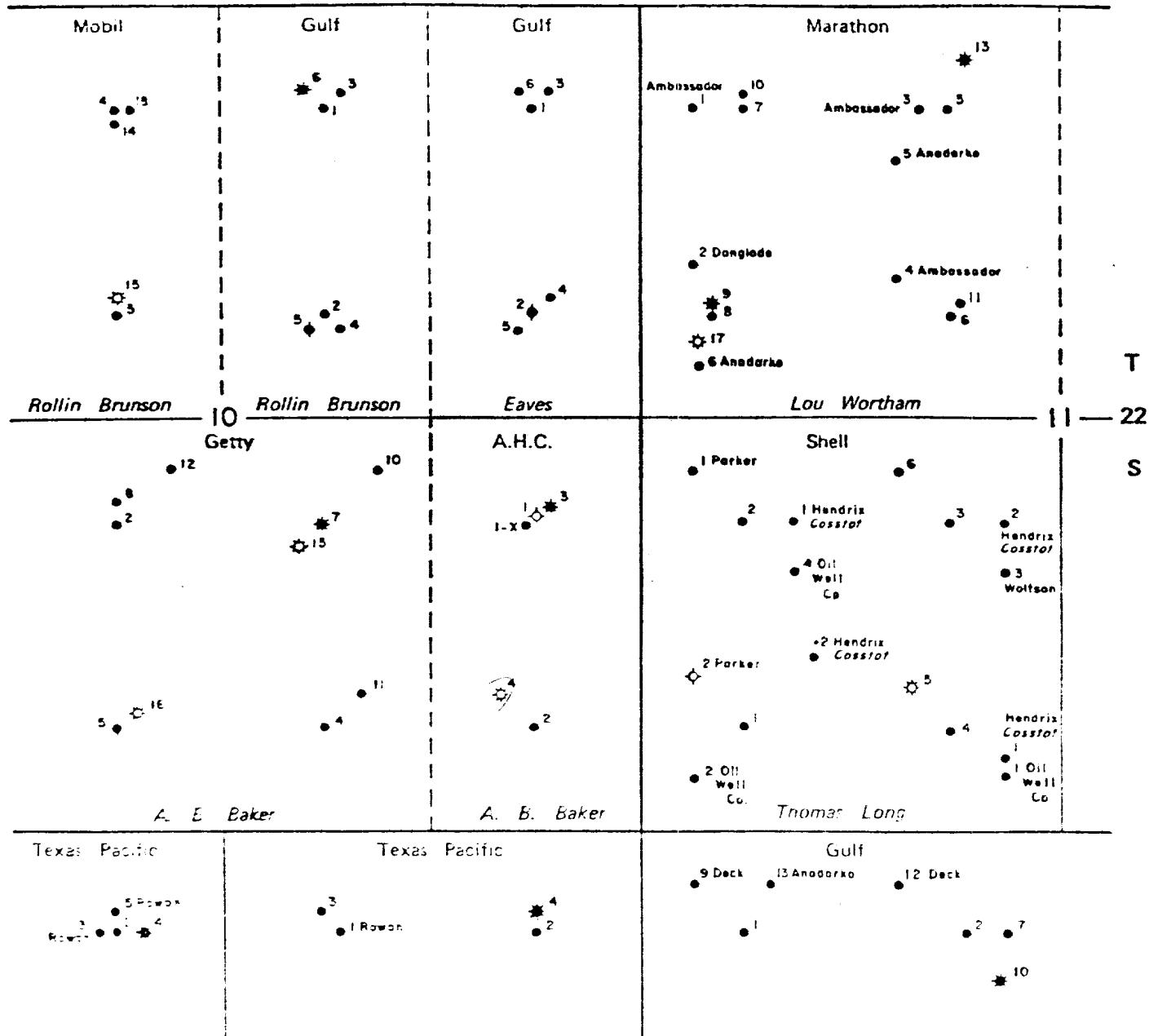
Well original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 101 and appropriate pool rules.

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

K. M. Helm
(Signature)

Sr. Petroleum Engineer
8-15-84
(Title)

R 37 E



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U.S. GOVERNMENT
HOUSING OFFICE

DATA CODES

OIL = O
GAS = X
WTR = *

CUMULATIVES:

OIL MBBLS
GAS MMCF
WTR MBBLS

15.5
1656.6
1549.7

15.5
1662.5
1557.3

15.5
1673.9
1573.9

15.5
1680.0
1582.0

15.5
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2326.0

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2338.0

RECORDED

AUG 27 1984

FBI
HOUSTON OFFICE

DATA CODES

DATA CODES

PRODUCTION PLOT

CUMULATIVES:

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132.0

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14

0-5
0-0

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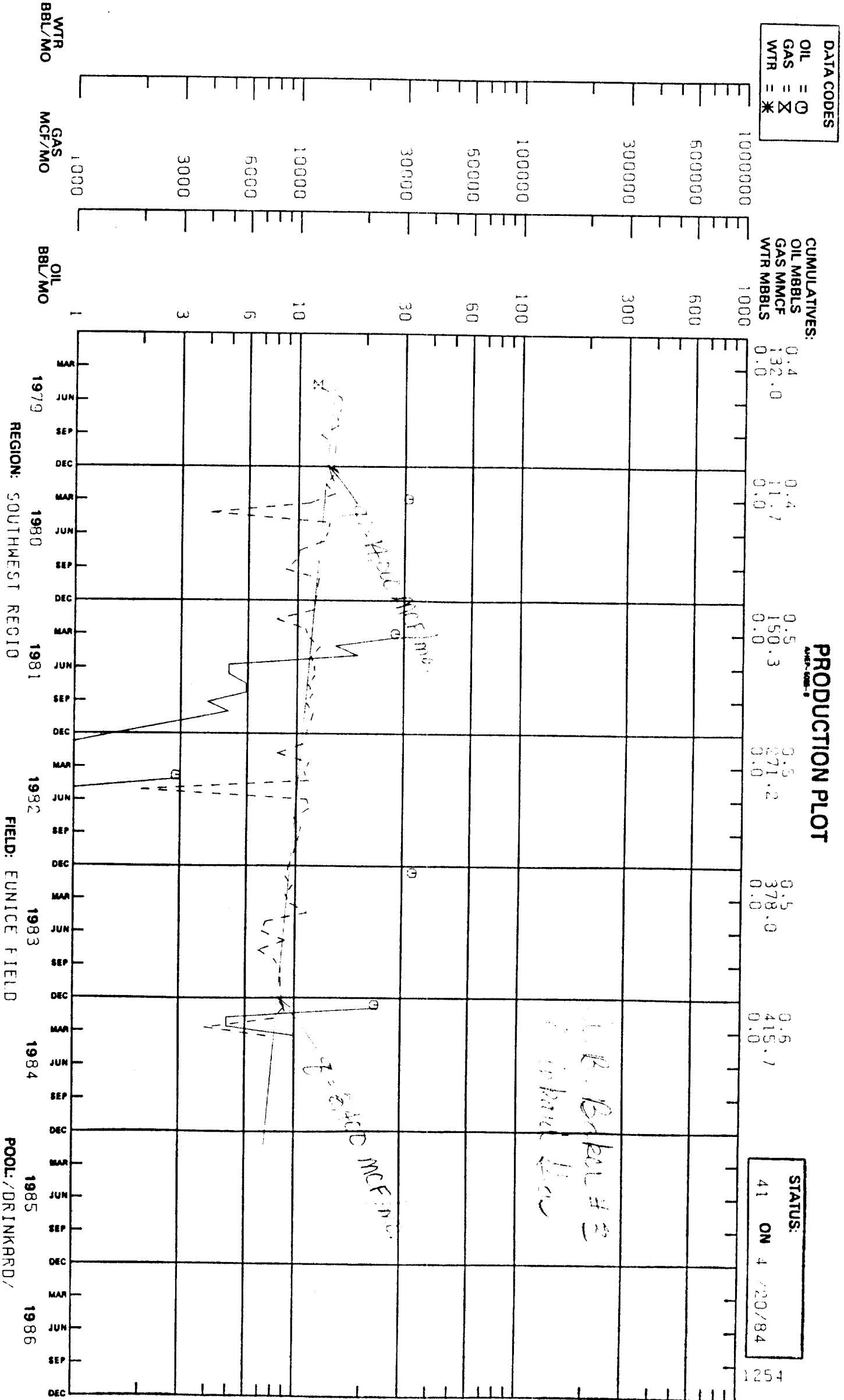
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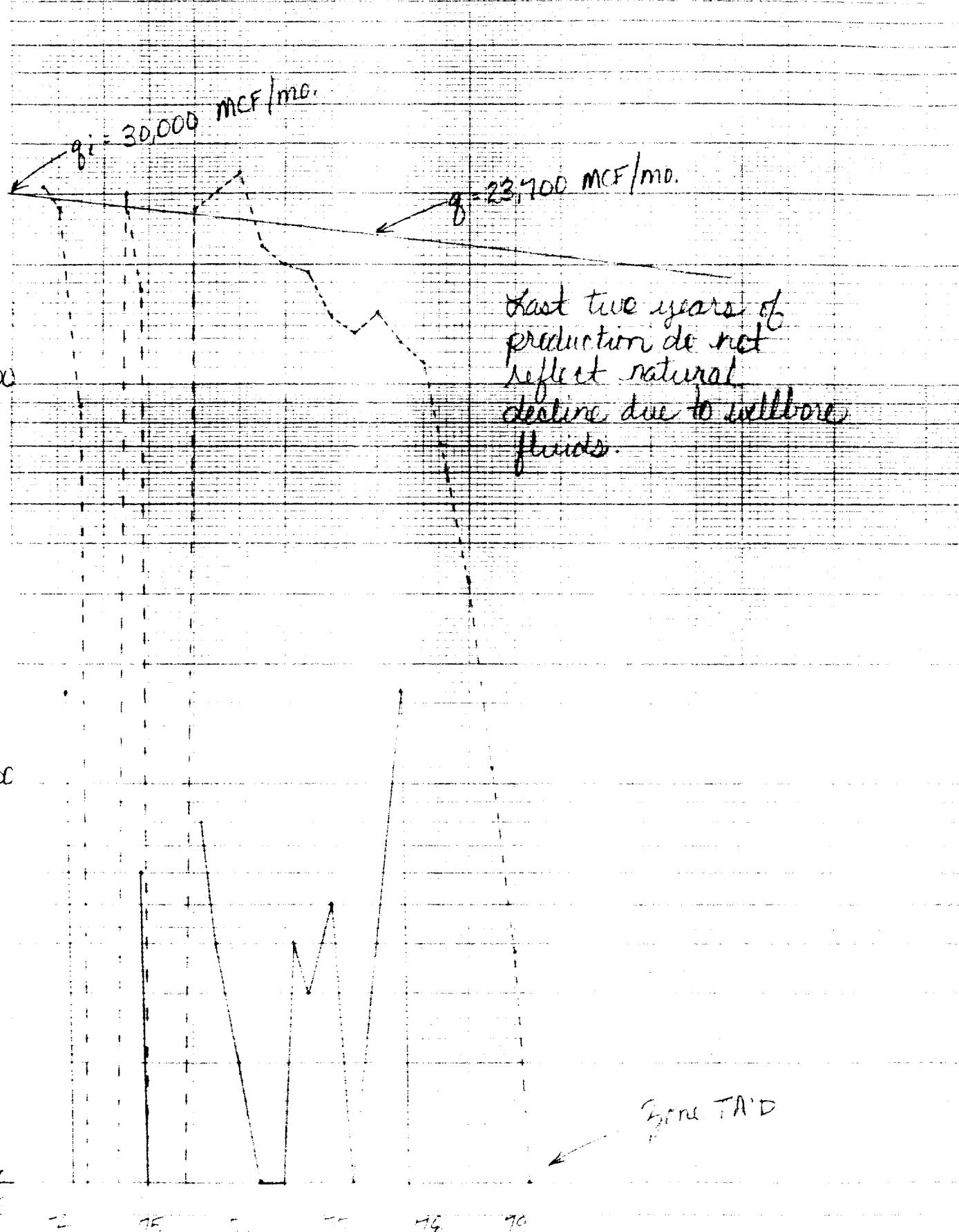
41 ON 4/22
STATUS:

48/84



AUG 27 1984
NOV 1984

A. B. Baker + 4 Drinkard Lir



SEARCHED

AUG 27 1984

SEARCHED
INDEXED
FILED

DATA CODES

DATA CODES
OIL = ①
GAS = ☒
WTR = *

DAIA GOLB

CUMULATIVES:
OIL MMBLS
GAS MMCF

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10
44
44
8

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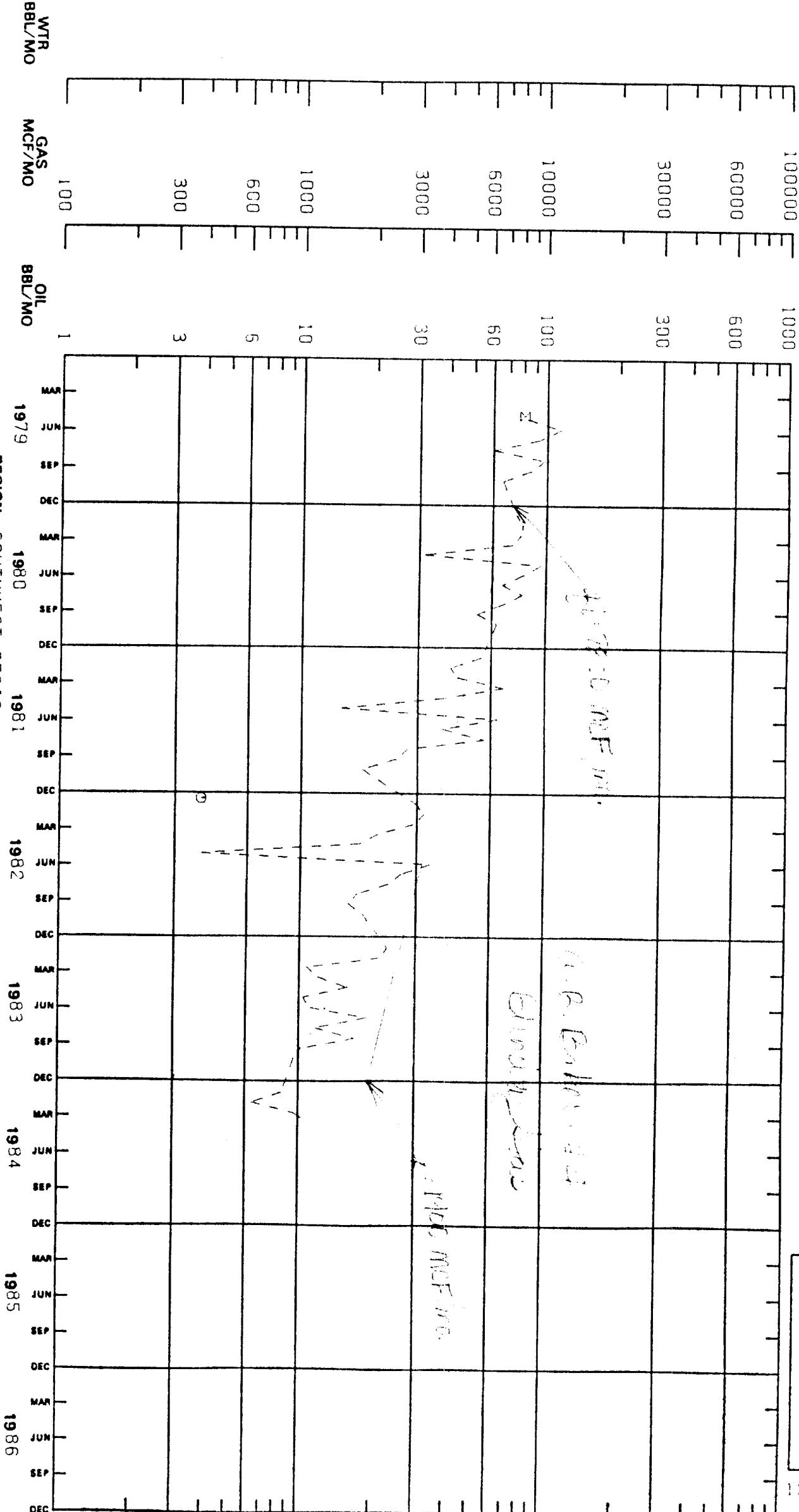
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31.

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REGION: SOUTHWEST REGION

LEASE: 00127 BAKER, A B

WELL. 41

FIELD: EUNICE FIELD

SEARCHED

AUG 27 1984

O.C.D.
HOUSERS OFFICE