

Submit 2 copies to Appropriate District Office.

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

DISTRICT I

P.O. Box 1900, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DO, Artesia, NM 88210

DISTRICT III

1000 Rio Grande Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator		Pool		County												
Amerada Hess Corporation		Blinebry/Drinkard		Lea												
Address		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>												
Drawer D, Monument, New Mexico 88265																
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	SIZE OF TEST	CHOKE SIZE	TRG. 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 MCF
E. W. Walden	2	K	15	22	37	2-6-90	F	2"	50		24	2	--	0	117	--
Downhole Commingling Permit No. DHC-741																

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

E. A. Woodell

E. A. Woodell Maint. Sp.

Printed name and title

2-8-90 505 393-2144

Date Telephone No.



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

GARREY CARRUTHERS
GOVERNOR

January 31, 1990

POST OFFICE BOX 1980
HOBBS NEW MEXICO 88241-1980
(505) 393-6161

Amerada Hess Corporation
Drawer D
Monument, NM 88265

Attn: Roy Wheeler

Re: E. W. Walden #2-K
Sec. 15, T22S, R37E
Downhole Commingle Blinebry and Drinkard
DHC-741

Gentlemen:

As indicated on your C-103 dated 1/30/90 the above referenced well has been downhole commingled. DHC-741 provides for the District Supervisor to set the allocation formula. Please file test on Form C-116 setting out the percentages for each zone accompanied by a letter outlining your basis for this breakdown in production.

Very truly yours,

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

P.S. Since the Blinebry zone in this well is classified as a prorated gas well it is your responsibility to make certain your gas transporter will allocate the correct percentage of production from the Blinebry zone on his monthly report, Form C-111.

RECEIVED

FEB 28 1990

OCD
HOBBS OFFICE

ALLOCATION BASED ON DECLINE RATES

If: $x = \text{Blinebry}$
 $1-x = \text{Drinkard}$

$$a_c = x(a_{\text{blinebry}}) + (1-x)(a_{\text{drinkard}})$$

$$.170 = x(.182) + 1-x (.118)$$

$$.170 = .182x + .118 - .118x$$

$$.170 - .118 = .182x - .118x$$

$$.052 = .064x$$

$$x = .052/.064$$

$$x = .812$$

$$1 - x = .188$$

Blinebry allocation = 81%
Drinkard allocation = 19%

BLINEBRY DECLINE RATE

qi = 2400 MCFPM
q = 2000 MCFPM
t = 1 yr

$$a = \frac{\ln \frac{2400}{2000}}{1}$$

a = .182
a = 18.2%

DRINDARD DECLINE RATE

qi = 540 MCFPM
q = 480 MCFPM
t = 1 yr

$$a = \frac{\ln \frac{540}{480}}{1}$$

a = .118
a = 11.8%

COMBINED DECLINE RATE

qi = 2940 MCFPM
q = 2480 MCFPM
t = 1 yr

$$a = \frac{\ln \frac{2940}{2480}}{1}$$

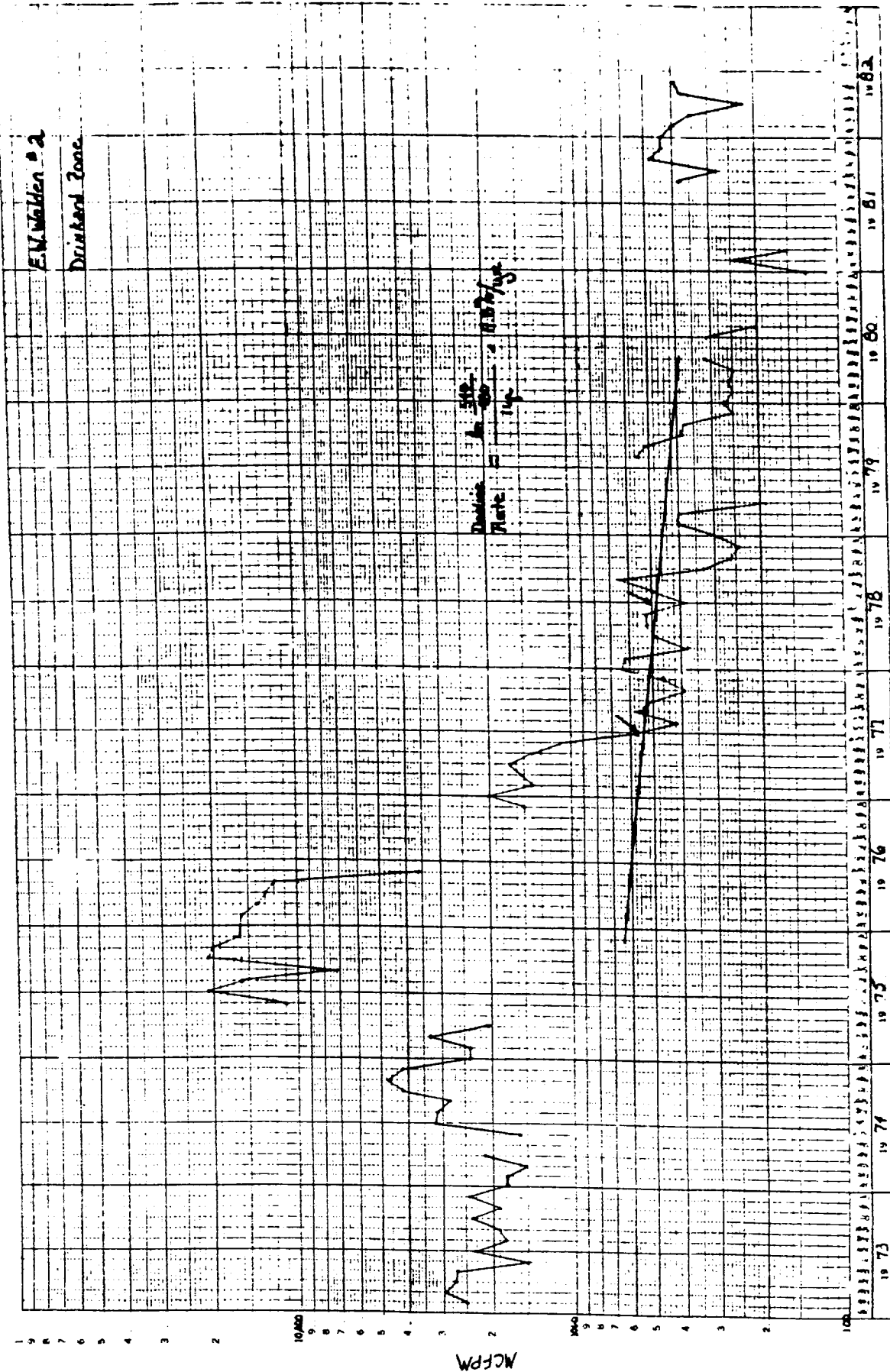
a = .170
a = 17.0%

RECEIVED

FEB 28 1990

OCB

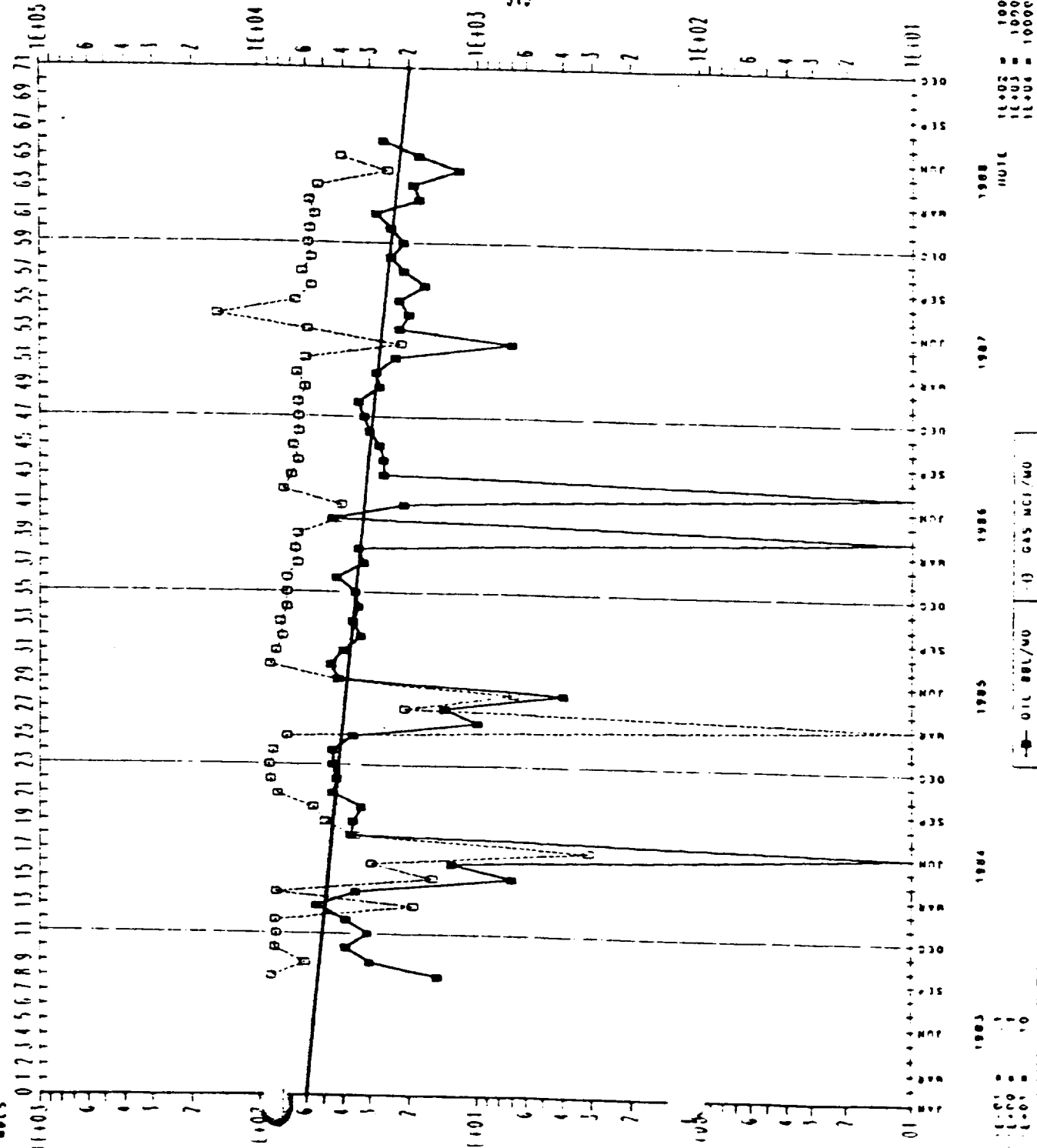
HOBBES & CO.



PRODUCTION PLOT

UNIT VALUES:
OIL BBL/MO
WATER BBL/MO
GAS MCF/MO
OIL BBL/MO

094.0 3.3 956.6 6.0 1028.6 6.3 1105.0 6.6 1185.0 6.8 1259.6



PLANT DATE: 8/9/88
PLANT NO.: 1530

REGION: SOUTHWEST BEGIO
FIELD: LUNICE FIELD 269
POOL: /BLINDERY GAS/
LEASE: 87645 WALDEN, C.V
WELL: 21
STATE CODE: 30 NEW MEXICO
POD CODE: 673

STATUS: ON 6/10/88

GAS FLOWING

Decline = $\frac{\ln \frac{2400}{2000}}{148} = 18.2\%/yr$

WORK OVER CODES:
F - CHEMICAL SQUEEZE
T - PARAFFIN INHIBITOR
B - WELL HEAD
P - SCALE INHIBITOR
M - ROSS AND/OR PUMP
L - POLYMER FLO
J - LINER
H - HOT OIL
T - FRESH WATER
O - CLEAN OUT
B - CONVERT TO SALT WATER
A - CONVERT TO OIL
F - FISH
S - ACIDIZE
J - FERTILIZER
I - SQUEEZE

W - ABANDONED
S - CORROSION INHIBITOR
O - TUBING
O - SVA3
M - SUPERSEAL EQUIP.
B - PACER
I - HYDRAULIC FRACTURING
C - GAS LIFT VALVES
C - CO2 FERTILIZER
C - CASING
A - CONVERT TO OIL
O - 2" LIFT VALVE
C - 2" LIFT VALVE
C - FILL
I - PUMP BACK

AMERADA HESS CORPORATION

Woody

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

February 3, 1990

Enron
P.O. Box 338
Star Route A
Hobbs, NM 88240

Dear Sirs:

The Walden #2 has been DHC in the Blinebry and Drinkard zones.
Please allocate 81% of gas production to Blinebry and 19% of gas
production to Drinkard. Thank you.

Sincerely,

Denise Wann

Denise Wann
Senior Petroleum Engineer

2-28-90 Called for test



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