



P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

May 10, 1983

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

Attention: Division Director

Re: Rule 303C - Downhole Commingling

Marathon Oil Company requests permission to downhole commingle production in its Mark Owen Well No. 7. The legal description for this well is 660' FSL and 2310' FWL, Unit N, Section 35, Township 21 South, Range 37 East, Lea County New Mexico. This well is a dual completion under Division Order No. MC-2265. This well produces from the Wantz Granite Wash from perforations at 7254' - 7330' and from the Wantz Abo from 6833' - 7218'.

An attached form C-116 shows the recent production from these two formations. Total production is 26 BOPD and 3 BWPD. The gravity of the two oils is nearly identical, 40° vs 39° API. Therefore the value of the commingled oil will not be reduced by commingling. Ownership of the two zones is also the same. The estimated bottom-hole pressures for these zones are: 181 psi (Wantz Granite Wash) and 775 psi (Wantz Abo).

Letters have been sent to all offset operators notifying them of the proposed commingling. A copy of one of these letters is attached. Also attached are copies of a water analysis on the two formations in question. Production decline curves for the past 5 years are also included.

If any further questions or comments should arise please contact this office. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas F. Zapatka', written over a horizontal line.

Thomas F. Zapatka
Production Engineer

TFZ:lbp
Enclosures

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C.S.D.
HOBBS OFFICE

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2018
SANTA FE, NEW MEXICO 87501

Form C-116
Revised 10-1-78

GAS-OIL RATIO TESTS

LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	TYPE OF TEST - (X)	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BB
		U	S	T							WATER BBL'S.	GRAV. OIL BBL'S.	OIL BBL'S.	
<u>Wantz Abo</u>	7	N	35	21S	37E	4/30/83	P		24	3	39°	15	43	2867
Mark Owen	7	N	35	21S	37E	4/05/83	P		24	0	40°	11	7	636

Marathon Oil Company
P.O. Box 2409 Hobbs, NM 88240
Wantz Granite Wash - Wantz Abo
Pool
County
Lea

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.
Mail 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.

Thomas F. Zabadal
Thomas F. Zabadal
(Signature)
Production Engineer
May 4, 1983
(Title)
(Date)

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HOBBS OFFICE

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : MARATHON OIL COMPANY
 DATE : 3-21-83
 FIELD, LEASES WELL : MARK OWEN WELL #7
 SAMPLING POINT: GRANITE WASH
 DATE SAMPLED : 3-18-83

SPECIFIC GRAVITY = 1.065
 TOTAL DISSOLVED SOLIDS = 97279
 PH = 6.69

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	280	5611.
MAGNESIUM	(MG)+2	130	1580.
SODIUM	(NA), CALC.	1280.	29431.
ANIONS			
BICARBONATE	(HCO3)-1	3.6	219.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	51.0	2450
CHLORIDES	(CL)-1	1635.	57986.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		112.
BARIUM	(BA)+2	NOT RUN	
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	153
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	10.4
CALCIUM SULFATE SCALING	LIKELY

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HOBBS OFFICE

UNICHEM INTERNATIONAL

401 NORTH LEECH

P.O. BOX 1499

HOBBES, NEW MEXICO 88240

COMPANY : MARATHON
 DATE : 5-11-83
 FIELD LEASE & WELL : MARK OWEN #7 WANTZ AEO
 SAMPLING POINT:
 DATE SAMPLED : 5-10-83

SPECIFIC GRAVITY = 1.092
 TOTAL DISSOLVED SOLIDS = 136507
 PH = 4.09

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	560	11222.
MAGNESIUM	(MG)+2	340	4133.
SODIUM	(NA).CALC.	1521	34984.
ANIONS			
BICARBONATE	(HCO3)--1	0	0
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	24.7	1187.
CHLORIDES	(CL)-1	2397	84980.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		117.
BARIUM	(BA)+2	NOT RUN	
MANGANESE	(MN)	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	-3.4
CALCIUM CARBONATE SCALING	UNLIKELY
SULFATE INDEX	2.79
CALCIUM SULFATE SCALING	LIKELY

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HOBBS OFFICE

Houston Division
Production Operations, United States



**Marathon
Oil Company**

P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

April 25, 1983

Gulf Oil Company
Attn: Operations Manager
P.O. Box 670
Hobbs, NM 88240

Re: Marathon Oil Company - Mark Owen Well No. 7
Unit N, Section 35, Township 21-South, Range 37-East
Lea County, New Mexico

Dear Sir:

Marathon Oil Company is requesting permission from the Oil Conservation Division to downhole commingle production in the above referenced well. The Mark Owen Well No. 7 is presently dually completed in the Wantz Granite Wash and the Wantz Abo. Combined production from this well will average approximately 30 BOPD and 5 BWPD.

If you have no objection to this request, please sign the waiver at the bottom of this letter and return it to my attention. If you have any further questions please contact this office. Thank you.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Thomas F. Zapatka'.

Thomas F. Zapatka
Production Engineer

TFZ:lbp

This is to acknowledge that the undersigned waives objection to the down-hole commingling as proposed by Marathon Oil Company in this letter.

Gulf Oil Corporation
Company
A handwritten signature in cursive script, appearing to read 'J. R. Frank'.
Company Representative

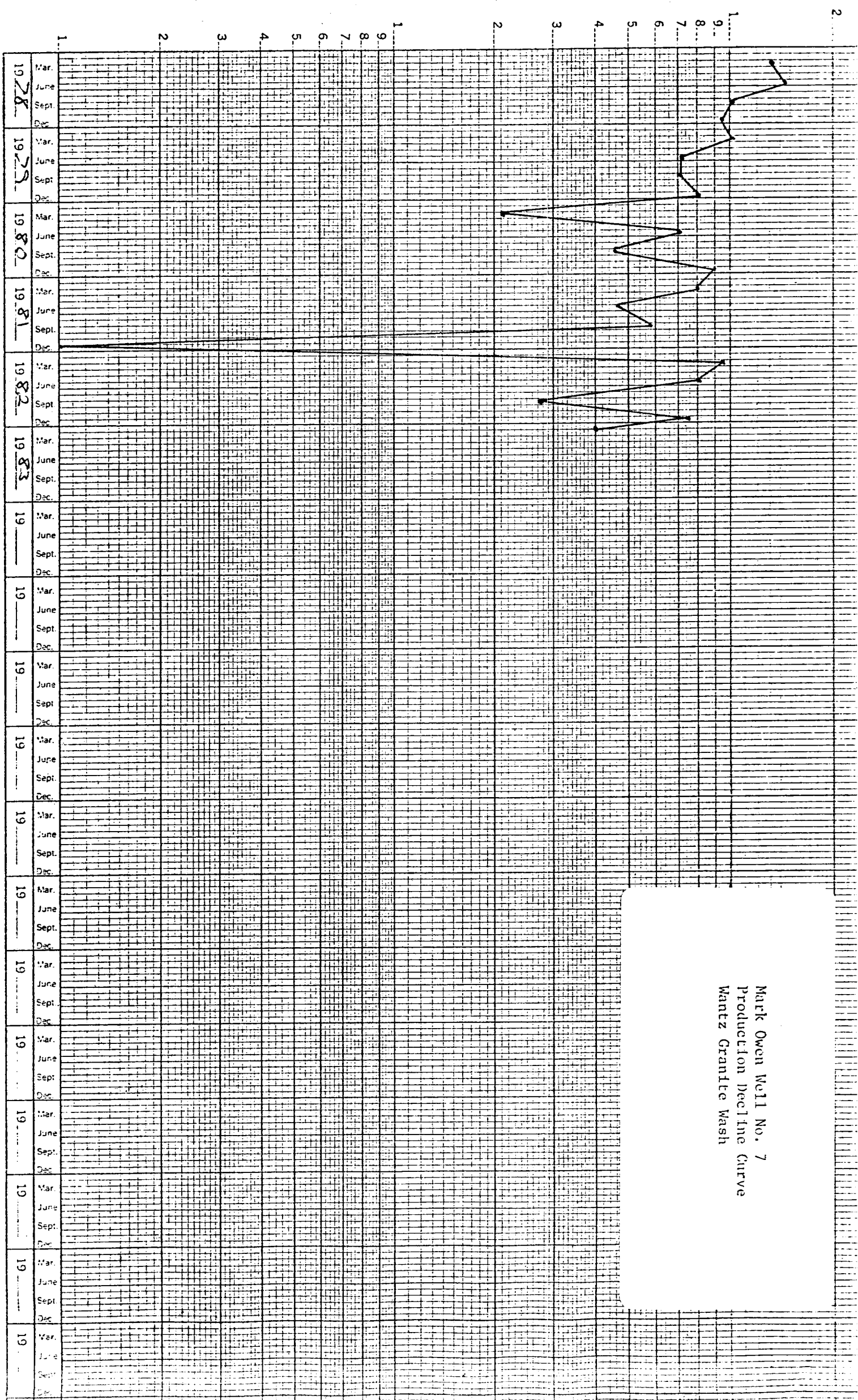
May 3, 1983
Date
Chief Proration Engineer
Title

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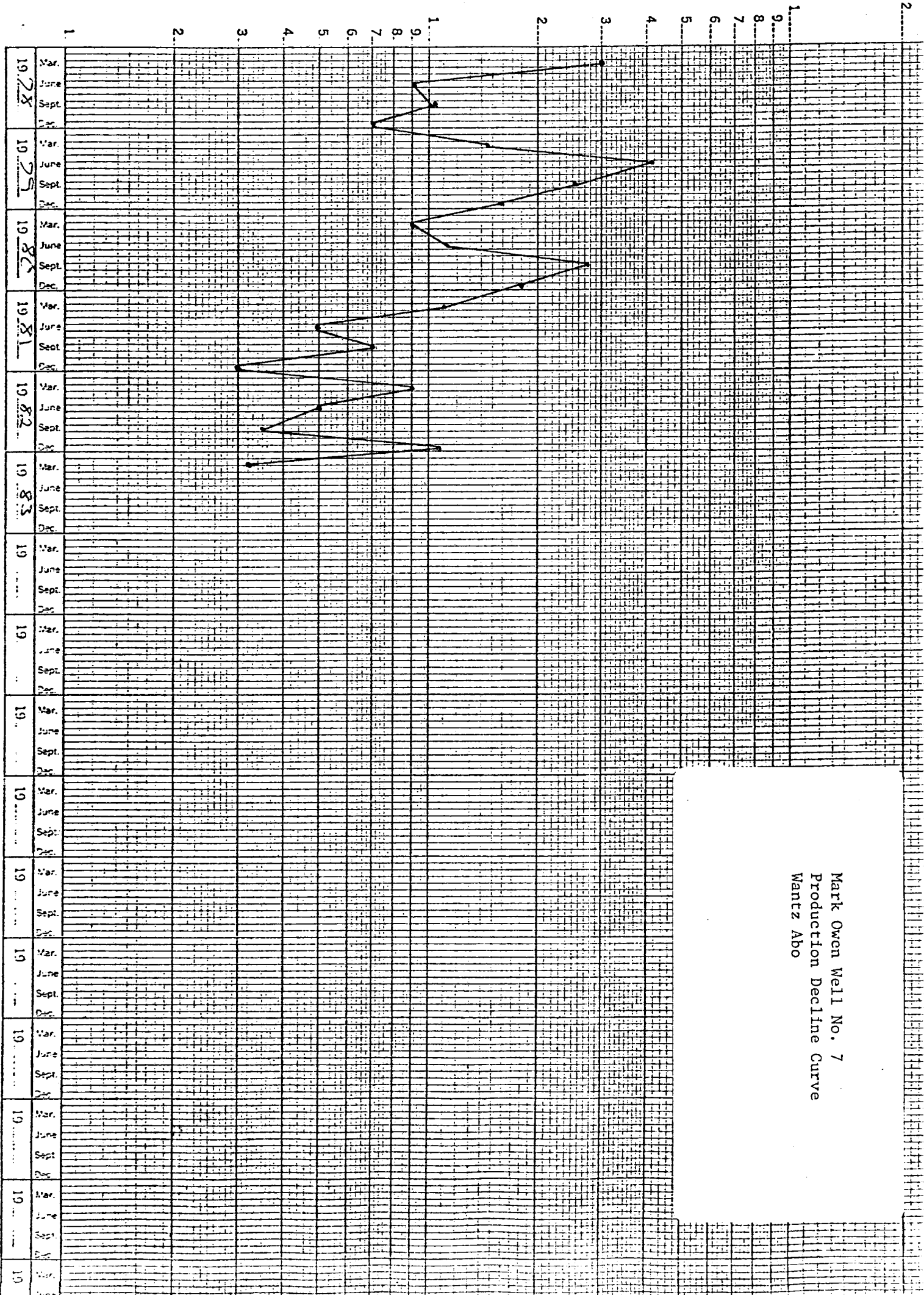
MAY 12 1983

O.C.D.
HOUSE OF REPRESENTATIVES

Mark Owen Well No. 7
 Production Decline Curve
 Wantz Granite Wash



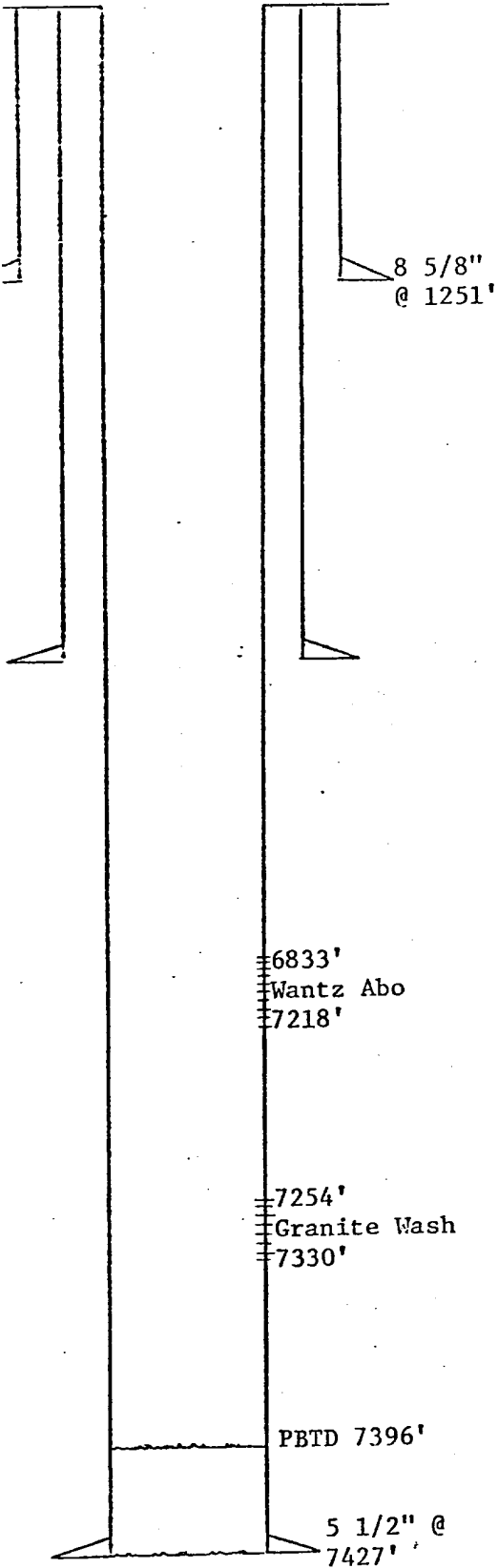
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HONORS OFFICE



Mark Owen Well No. 7
 Production Decline Curve
 Wantz Abo

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WELL DATA SHEET



FIELD Drinkard Field

LEASE & WELL NO. Mark Owen No. 7

LOCATION 660' FSL & 2310' FWL, Sec. 35, T21S, R37E

COUNTY & STATE Lea County, New Mexico

STATUS Wantz Abo Flowing/Granite Wash Pumping
(Pumping, Flowing, Gas-Lift, etc.)

TD 7427 PBD 7396 KB 3378 GL 3367

SURFACE CASING 8 3/8", 24# set @ 1251
cement to surface

INTERMEDIATE CASING _____

PRODUCTION CASING 5 1/2", 15.5# @ 7426'
cement top at 2368'

TUBING Long string - 2 1/16" tubing, Model "FL" on-off
tool, Baker A-2 Lok-set packer at 7230'.

RODS 5/8" rods, 1 1/16" rod pump

PUMPING UNIT 228-246-86

PRESENT COMPLETION Wantz Granite Wash 7254-94 (24
holes), 7320-30. Wantz Abo 6833-7218
(Formation and Interval)

HISTORY Originally completed in the Granite Wash in 1975. In 1976 it was dualled with
the Wantz Abo. In 1983 perforations were added in both zones and both zones
acidized.

PREPARED BY Thomas F. Zapatka DATE March 30, 1983

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