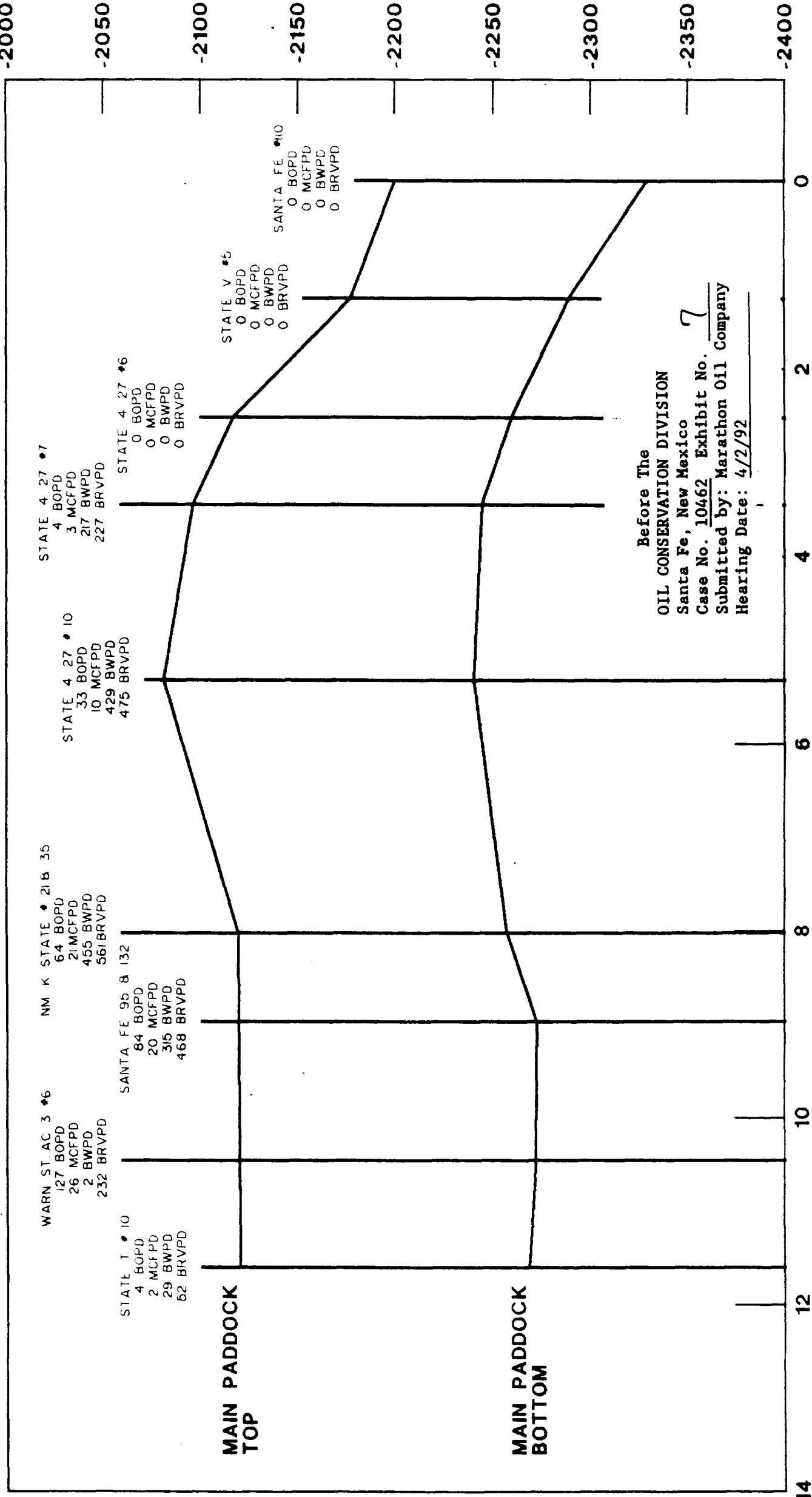


VACUUM GLORIETA CROSS SECTION

A'

A



14

12

10

8

6

4

2

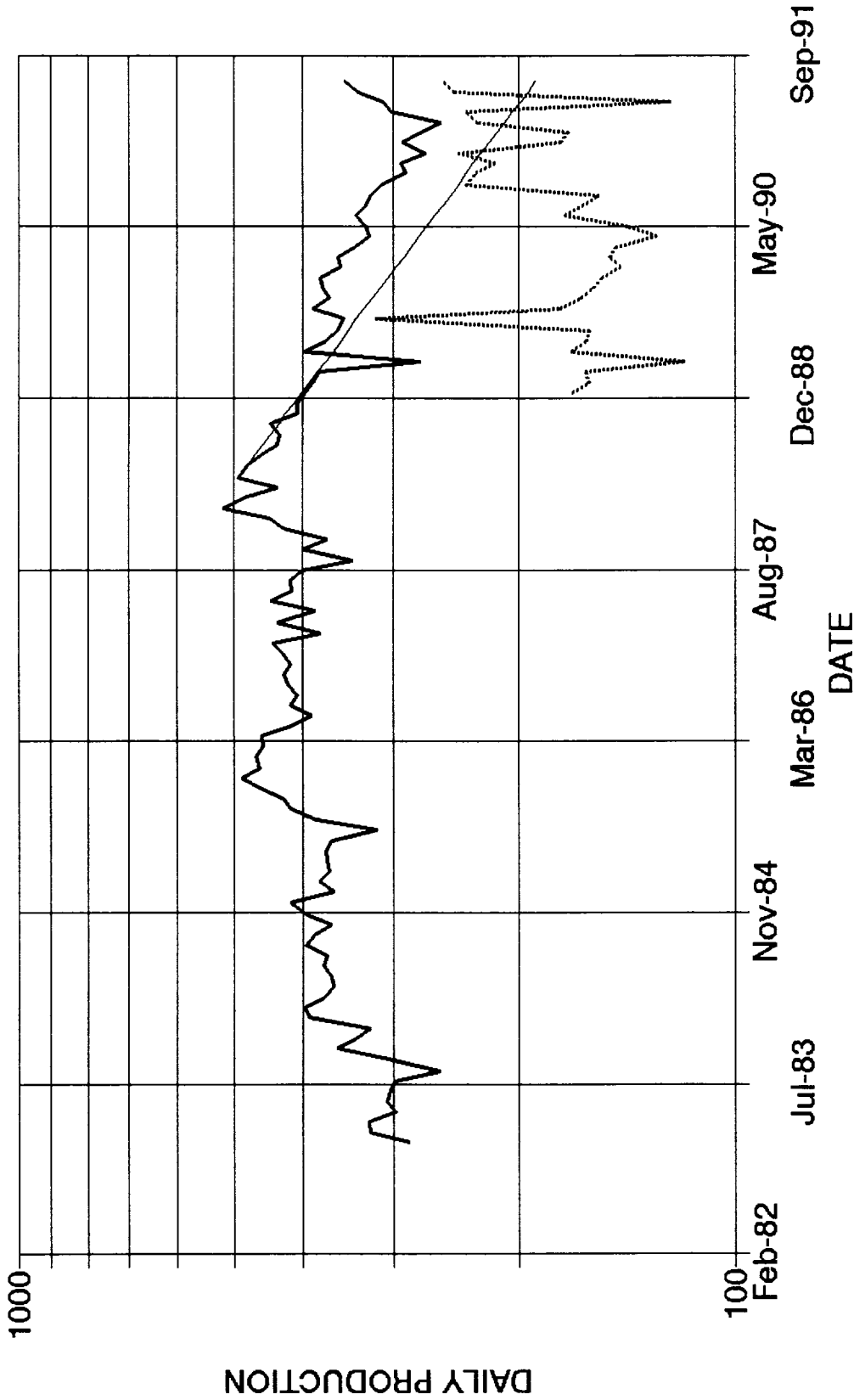
0

DISTANCE (FT)
THOUSANDS

SUBSEA DEPTH (FT)

VACUUM GLORIETA POOL S/2 SEC 28

OIL PRODUCTION - ORIGINAL VS INFILL

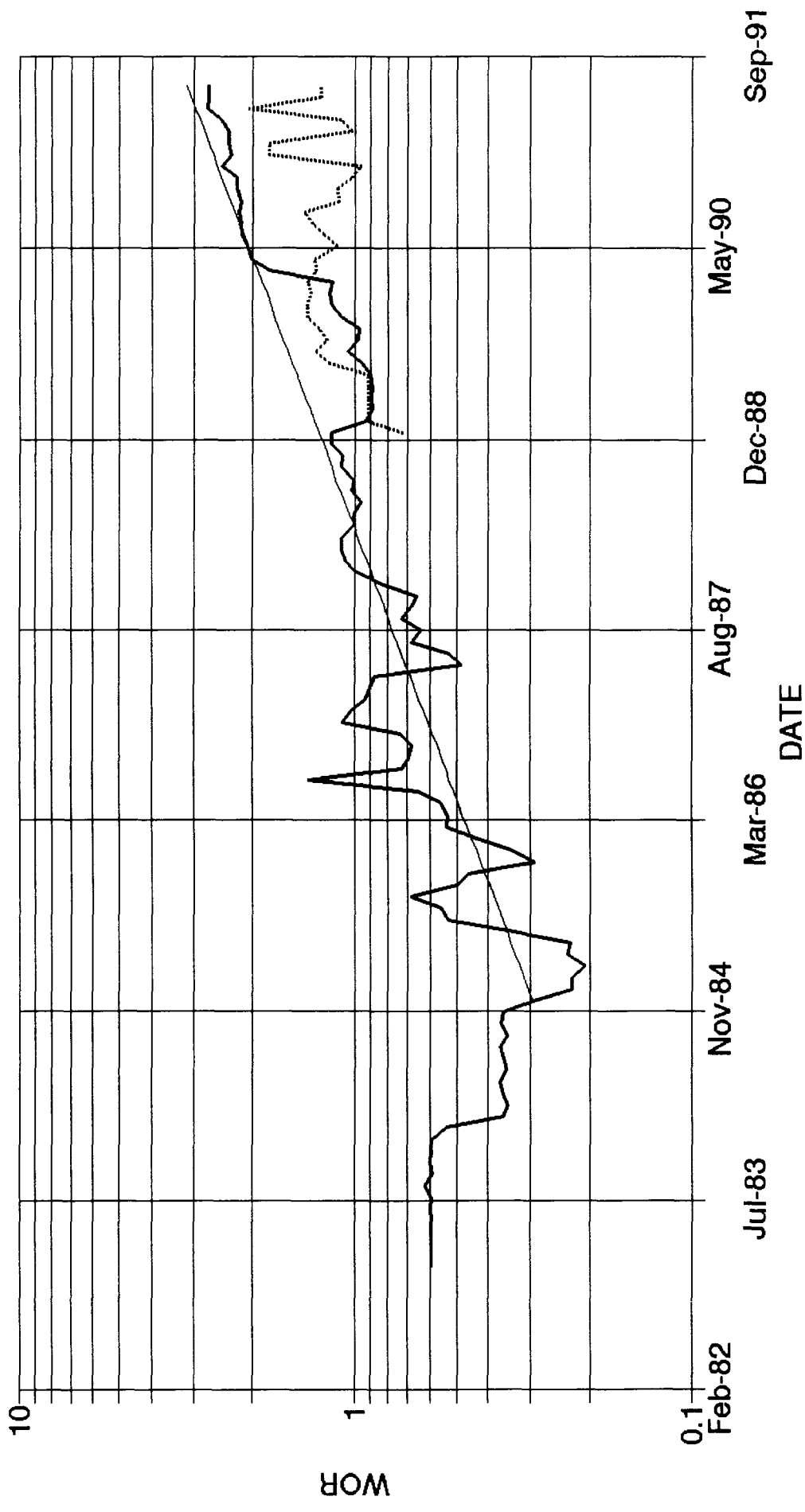


ORIGINAL WELLS
 DECLINE PROJECTION
 INFILL WELLS

Before The
OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Case No. 10462 Exhibit No. 8
 Submitted by: Marathon Oil Company
 Hearing Date: 4/2/92

VACUUM GLORIETA POOL S/2 SEC 28

WATER/OIL RATIO - ORIGINAL VS INFILL

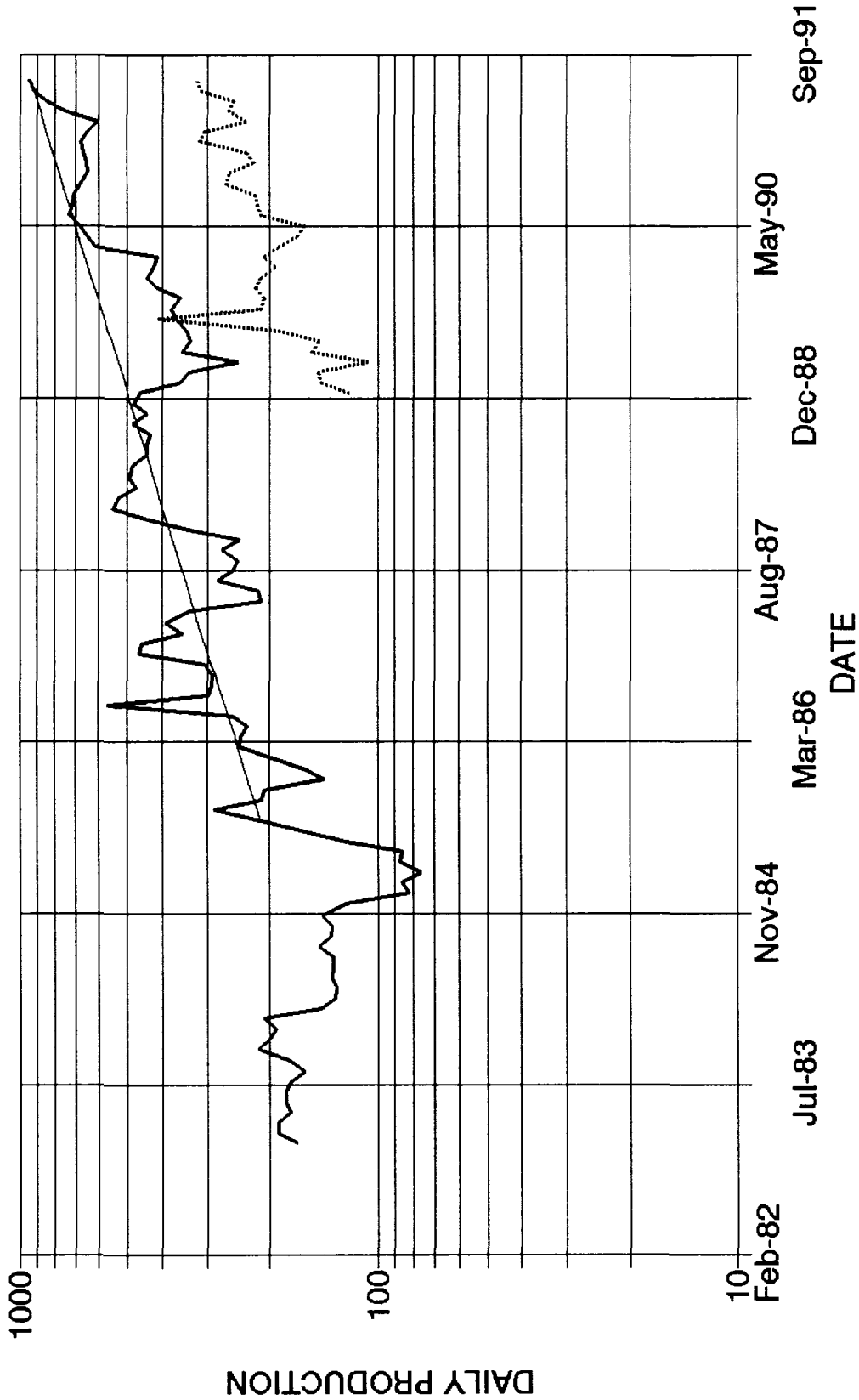


— ORIGINAL WELLS — PROJECTION INFILL WELLS

Before The
 OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Case No. 10462 Exhibit No. 9
 Submitted by: Marathon Oil Company
 Hearing Date: 4/2/92

VACUUM GLORIETA POOL S/2 SEC 28

WATER PRODUCTION - ORIGINAL VS INFILL

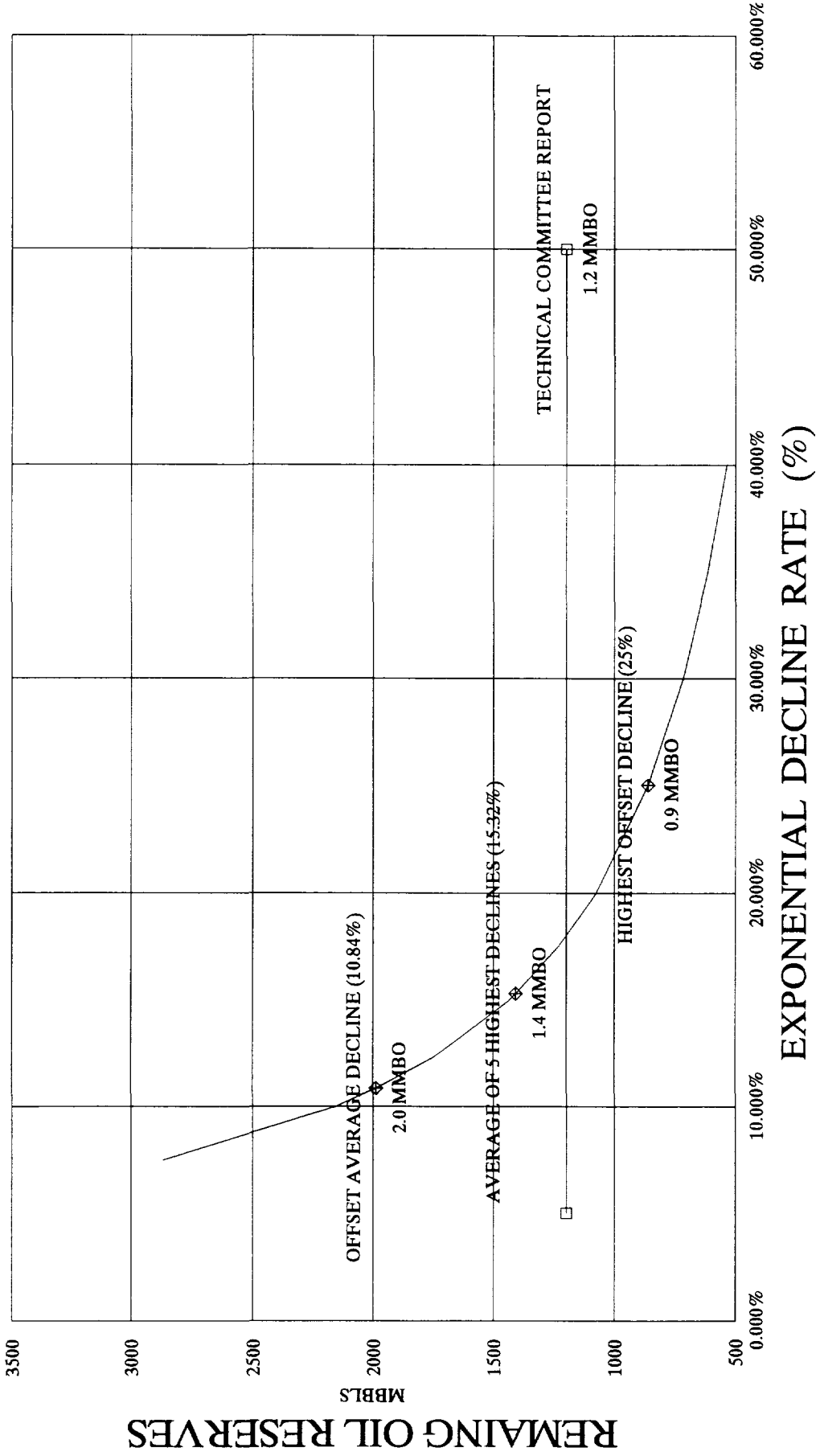


— ORIGINAL WELLS — ORIGINAL PROJECTION INFILL WELLS

Before The
 OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Case No. 10462 Exhibit No. 10
 Submitted by: Marathon Oil Company
 Hearing Date: 4/2/92

VACUUM GLORIETA POOL

REMAINING RESERVES VS DECLINE RATE
 COMBINED RESERVES FOR 4 CURRENT TOP ALLOWABLE WELLS

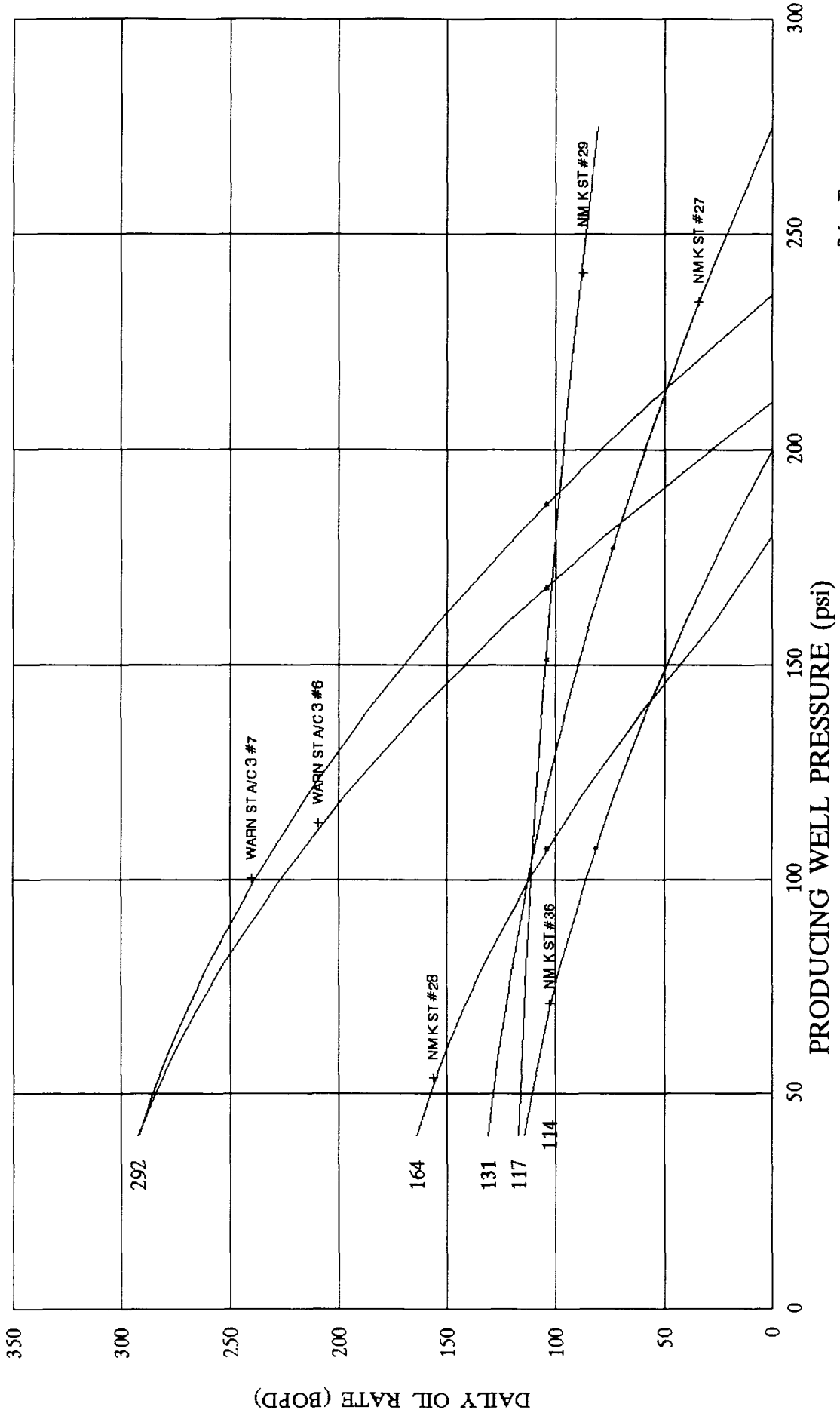


Before The
 OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Case No. 10462 Exhibit No. / /
 Submitted By: Marathon Oil Company
 Hearing Date: 4/2/92

VACUUM GLORIETA POOL

PROJECTED WELL CAPACITY (VOGAL ANALYSIS)

SIX TOP ALLOWABLE OR NEAR TOP ALLOWABLE WELLS



Before The
OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Case No. 10462 Exhibit No. 12
 Submitted by: Marathon Oil Company
 Hearing Date: 4/2/92

* CURRENT PRODUCING RATE

**VACUUM GLORIETA POOL
PERTINENT DATA SUMMARY**

RESERVOIR DATA

POOL AREA	6960 acres
DEPTH	5950 ft.
INITIAL SATURATION PRESSURE	1331 psi.
SOLUTION GOR	552 SCF/STB
OIL GRAVITY	43 Deg. API
WELL SPACING (PRORATION UNIT) ALLOWABLE	40-acre 107 BOPD
INITIAL RESERVOIR PRESSURE	2260 psi. @ 1970' SUBSEA
CURRENT AVERAGE RESERVOIR PRESSURE	350 psi. @ 1970' SUBSEA
CURRENT ACTIVE WELL COUNT	121 WELLS

CURRENT DATA

CURRENT PRODUCTION RATES	TOTAL -----	AVERAGE -----
OIL RATE	3034 BOPD	25 BOPD/WELL
GAS RATE	3687 MCFPD	30 MCFPD/WELL
WATER RATE	6249 BWP	52 BWP/WELL
RESERVOIR VOIDAGE RATE	44401 RBP	367 RBP/WELL

TOP ALLOWABLE WELL PREDICTIONS

INCLUDES SIX WELLS WITH TOP ALLOWABLE CAPACITY

CURRENT AND PROJECTED RATES	CURRENT -----	PREDICTED -----	INCREMENTAL -----
OIL	620 BOPD	1088 BOPD	468 BOPD
GAS	165 MCFPD	260 MCFPD	95 MCFPD
WATER	289 BWP	342 BWP	53 BWP
RESERVOIR VOIDAGE	1651 RBP	2736 RBP	1085 RBP

CURRENT AND PREDICTED RATES AS % OF CURRENT FIELD TOTAL

	CURRENT -----	PREDICTED -----	INCREMENTAL -----
OIL	20%	35%	15%
GAS	4%	7%	3%
WATER	5%	6%	1%
RESERVOIR VOIDAGE	4%	6%	2%

RESERVOIR VOIDAGE AVERAGES

	CURRENT -----	WITH INCREASED ALLOWABLES -----
FIELD TOTAL	367 RBP	379 RBP
PROPOSED VACUUM GLORIETA EAST UNIT	322 RBP	341 RBP
PROPOSED VACUUM GLORIETA WEST UNIT	438 RBP	438 RBP
EAST HALF OF THE EAST UNIT	288 RBP	318 RBP
12 OFFSETS TO TOP ALLOWABLE WELLS	450 RBP	450 RBP
6 WELLS WITH TOP ALLOWABLE CAPACITY	275 RBP	456 RBP

CUMULATIVE DATA

CUMULATIVE RECOVERY	TOTAL POOL -----	SIX TOP ALLOWABLE WELLS -----	% OF TOTAL TOP ALLOWABLE WELLS -----
OIL	62 MMSTBO	5 MMSTBO	8%
GAS	76 BCF	4.7 BCF	6%
WATER	36 MMBW	0.8 MMBW	2%
RESERVOIR VOIDAGE (@350 psi)	578 MMRB	34 MMRB	6%
OOIP	172 MMSTBO	8.6 MMSTBO	5%

Before The
OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 10462 Exhibit No. 13
Submitted By: Marathon Oil Company
Hearing Date: 4/2/92