

LEPTHE EXAMINER CATANACH

OIL CONSERVATION DIVISION

~~ANADARKO~~ EXHIBIT NO. 12

CASE NO. 10719

POWER FEDERAL COM No.2

CEDAR LAKE FIELD

NMOCD HEARING

JUNE 17, 1993

PRORATION UNIT VOLUMETRIC RESERVE DETERMINATION

CEDAR LAKE FEDERAL No.35-1
ENRON OIL & GAS
MORROW

PRORATION UNIT:	320 ACRES
RESERVOIR ACRES:	280 ACRES
PRODUCTION START DATE:	06/12/92
RECOVERABLE RESERVES:	6300 MMCF, 258 MBO
ESTIMATED CUMULATIVE PRODUCTION AS OF 10/01/93:	5000 MMCF, 205 MBO
REMAINING RECOVERABLE RESERVES AS OF 10/01/93:	1900 MMCF, 78 MBO

POWER FEDERAL COM No.2
ANADARKO PETROLEUM CORPORTATION
MORROW

PRORATION UNIT:	320 ACRES
RESERVOIR ACRES:	123 ACRES
PRODUCTION START DATE:	10/01/93
RECOVERABLE RESERVES:	2200 MMCF, 90 MBO

COMBINED PRORATION UNITS

PRORATION UNITS:	640 ACRES
RESERVOIR ACRES:	403 ACRES
RECOVERABLE RESERVES:	8500 MMCF, 349 MBO
ESTIMATED CUMULATIVE PRODUCTION AS OF 10/01/93:	5000 MMCF, 205 MBO
REMAINING RECOVERABLE RESERVES AS OF 10/01/93:	3500 MMCF, 144 MBO

BUFFALO EXAMINER CATANACH

OIL COMPANY DIVISION

Anadarko EXHIBIT NO. 13

CASE NO. 10719

POWER FEDERAL COM. No. 2
CEDAR LAKE FIELD
NMOCD HEARING
JUNE 17, 1993

RESERVOIR ASSUMPTIONS

CEDAR LAKE FEDERAL No.35-1
ENRON OIL & GAS
MORROW

PRODUCTIVE SAND THICKNESS:	45 FT
RESERVOIR ACRES:	280 ACRES
RESERVOIR VOLUME:	7858 AC-FT
POROSITY:	9%
WATER SATURATION:	30%
INITIAL PRESSURE:	5100 PSI
ABANDONMENT PRESSURE:	500 PSI

POWER FEDERAL COM No.2
ANADARKO PETROLEUM CORPORATION
MORROW

PRODUCTIVE SAND THICKNESS:	37 FT
RESERVOIR ACRES:	123 ACRES
RESERVOIR VOLUME:	2631 AC-FT
POROSITY:	9%
WATER SATURATION:	30%

ARNOLD FEDERAL COM No.1
ANADARKO PETROLEUM CORPORATION
MORROW

PRODUCTIVE SAND THICKNESS:	41 FT
RESERVOIR ACRES:	400 ACRES
RESERVOIR VOLUME:	6682 AC-FT
POROSITY:	11%
WATER SATURATION:	15%
INITIAL PRESSURE:	5100 PSI
ABANDONMENT PRESSURE:	500 PSI
CURRENT PRESSURE:	600 PSI
CUMULATIVE PRODUCTION:	7500 MMCF, 132 MBO

DEFOATE EXAMINER CATANACH

CONSERVATION DIVISION

ANADARKO FIELD NO. 1H

CASE NO. 10719

POWER FEDERAL COM No.2
CEDAR LAKE FIELD
NMOCD HEARING
JUNE 17, 1993

RESERVE ALLOCATION BY DECLINE CURVE ANALYSIS

CEDAR LAKE FEDERAL No.35-1
ENRON OIL & GAS
MORROW

PRODUCTION START DATE:	06/12/92
INITIAL RATE:	2 MMCFD, 73 BOPD
MAXIMUM RATE:	17.4 MMCFD, 741 BOPD
ESTIMATED RATE @10/01/93:	10.8 MMCFD, 440 BOPD
ENDING RATE:	50 MCFD
RECOVERABLE RESERVES:	6300 MMCF, 258 MBO
ESTIMATED CUMULATIVE PRODUCTION AS OF 10/01/93:	5000 MMCF, 205 MBO
REMAINING RECOVERABLE RESERVES AS OF 10/01/93:	1900 MMCF, 78 MBO

POWER FEDERAL COM No.2
ANADARKO PETROLEUM CORPORATION
MORROW

PRODUCTION START DATE:	10/01/93
INITIAL RATE @10/01/93:	8.9 MMCFD, 365 BOPD
ENDING RATE:	50 MCFD
RECOVERABLE RESERVES:	1600 MMCF, 65 MBO

INITIAL RATE IS THE RATIO OF NET PAY FOR THE POWER FEDERAL COM. No.2
AND THE CEDAR LAKE FEDERAL No.35-1 MULTIPLIED BY THE CEDAR LAKE
FEDERAL No.35-1 RATE AS OF 10/01/93.

$$37 \text{ FT}/41 \text{ FT} = 0.82 \text{ THEN } 0.82 * 10.8 \text{ MMCFD} = 8.9 \text{ MMCFD}$$

COMBINED WELLS

RATE @10/01/93:	19.7 MMCFD, 810 BOPD
ENDING RATE:	100 MCFD
RECOVERABLE RESERVES:	8500 MMCF, 349 MBO
ESTIMATED CUMULATIVE PRODUCTION AS OF 10/01/93:	5000 MMCF, 205 MBO
REMAINING RECOVERABLE RESERVES AS OF 10/01/93:	3500 MMCF, 144 MBO

DEPT. OF THE INTERIOR CATANACH

OIL CONSERVATION DIVISION

Anadarko FIELD NO. 15

CASE NO. 10719

POWER FEDERAL COM. No.2
CEDAR LAKE FIELD
NMOCD HEARING
JUNE 17, 1993

INITIAL RATE CALCULATIONS

CEDAR LAKE FEDERAL No.35-1
ENRON OIL & GAS
MORROW

PRODUCTIVE SAND THICKNESS:
MAXIMUM RATE:
ESTIMATED RATE @10/01/93:

45 FT
17.4 MMCFD, 741 BOPD
10.8 MMCFD, 440 BOPD

POWER FEDERAL COM. No.2
ANADARKO PETROLEUM CORPORATION
MORROW

PRODUCTIVE SAND THICKNESS:
THICKNESS RATIO:
INITIAL RATE:

37 FT
0.82
8.9 MMCFD, 365 BOPD

ARNOLD FEDERAL COM. No.1
ANADARKO PETROLEUM CORPORATION
MORROW

PRODUCTIVE SAND THICKNESS:
THICKNESS RATIO:
MAXIMUM RATE:

41 FT
0.91
16.0 MMCFD

BEFORE EXAMINER CATANACH

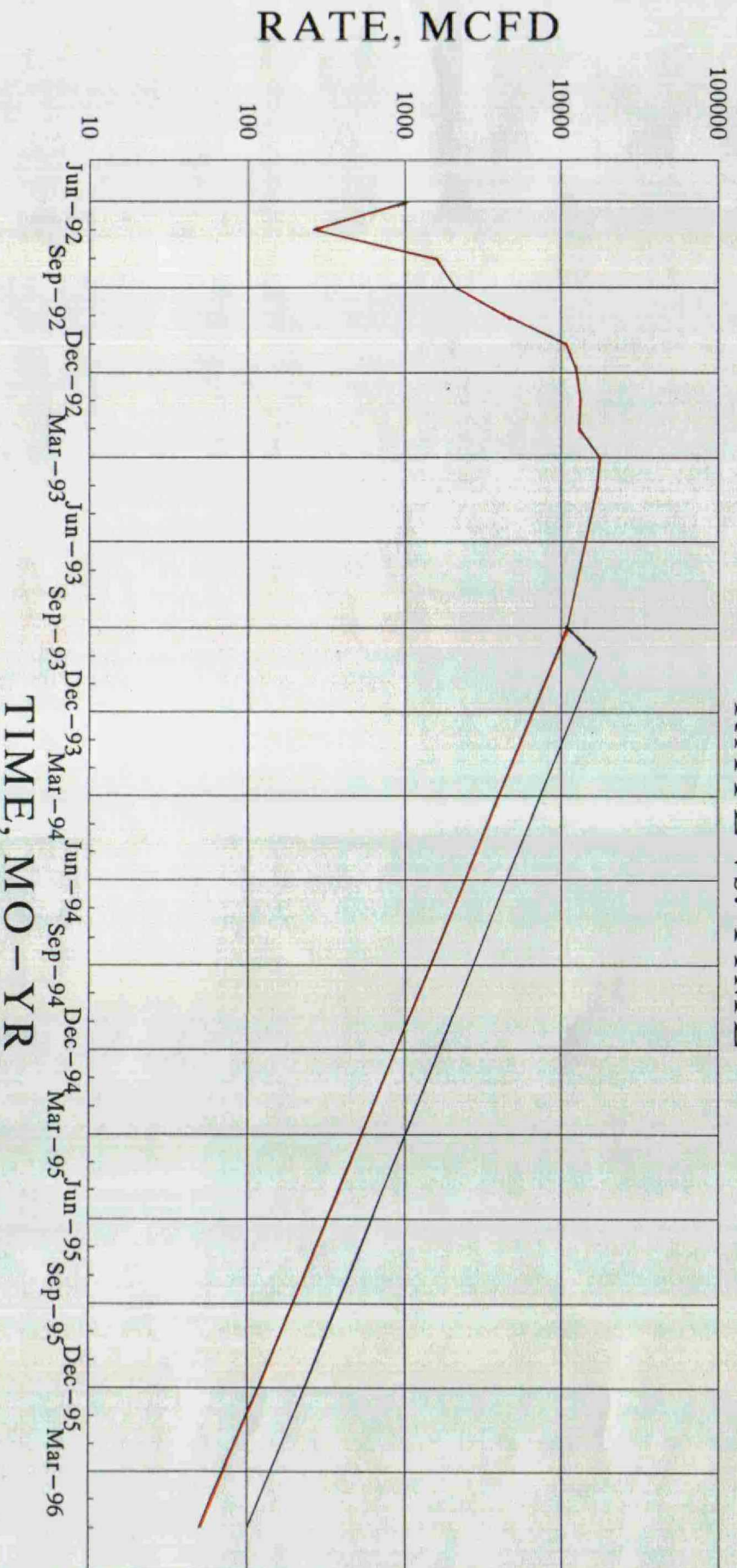
OIL CONSERVATION DIVISION

~~Macdako~~ EXHIBIT NO. 16

CASE NO. 10719

CEDAR LAKE FIELD

RATE vs. TIME



— TWO WELLS — CEDAR LAKE FED

NO PENALTY