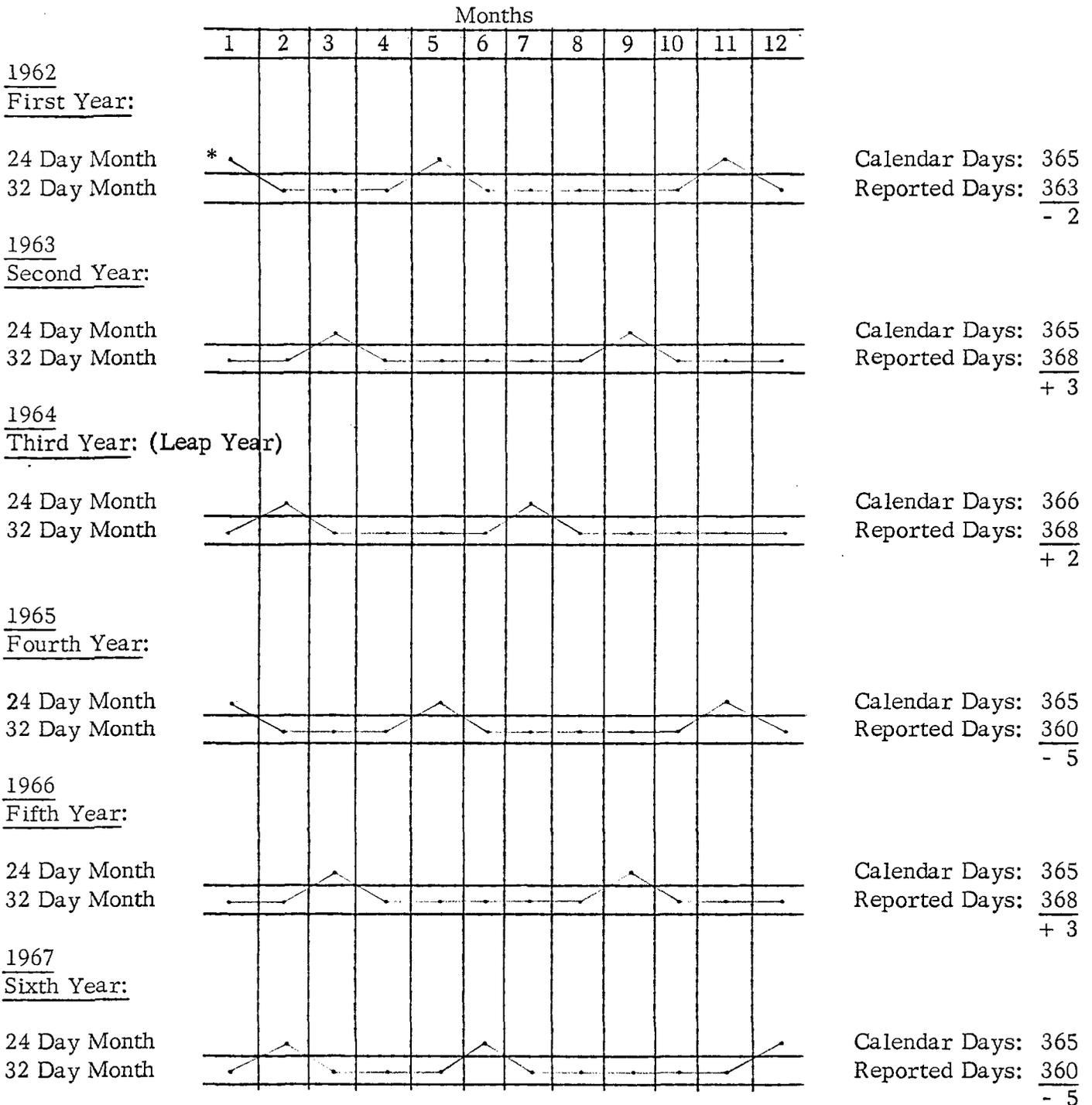


CYCLE CHART CHANGING - WELLS

BEFORE THE
OIL CONS. COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 3
CASE 2373

Sample of Wells in Group I



*January 1962 would contain 27 days assuming new procedure started January 1, 1962.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE NEW MEXICO
EXHIBIT No. 7
CASE 2373

THE PROPOSED EL PASO CYCLE CHART CHANGING PROCEDURE consists of using only 8-day charts and changing (each day) charts on 1/8 of the wells connected to the system.

As to any individual well, a calendar month will contain either 3 or 4 charts (24 or 32 days).

A well which has 360 reportable days in a calendar year will have 45 charts.

$$\begin{array}{r} 9 \text{ months @ 4 charts/month (32-day months)} = 36 \text{ charts} \\ 3 \text{ months @ 3 charts/month (24-day months)} = \underline{9 \text{ charts}} \\ \hline 45 \text{ charts} \end{array}$$

A well which has 368 reportable days in a calendar year will have 46 charts.

$$\begin{array}{r} 10 \text{ months @ 4 charts/month (32-day months)} = 40 \text{ charts} \\ 2 \text{ months @ 3 charts/month (24-day months)} = \underline{6 \text{ charts}} \\ \hline 46 \text{ charts} \end{array}$$

In a 365-day calendar year:

5 groups of wells will contain 46 charts per well
3 groups of wells will contain 45 charts per well

In a 366-day calendar year:

6 groups of wells will contain 46 charts per well
2 groups of wells will contain 45 charts per well

On a 28-day month:

$$\begin{array}{r} 4 \text{ groups will contain 4 charts for the month} = 16 \text{ charts} \\ 4 \text{ groups will contain 3 charts for the month} = \underline{12 \text{ charts}} \\ \hline 28 \text{ charts} \end{array}$$

$$\frac{28 \text{ charts} \times 8 \text{ days/chart}}{8 \text{ groups of wells}} = 28 \text{ average number days reported}$$

On a 29-day month:

5 groups will contain 4 charts for the month = 20 charts
3 groups will contain 3 charts for the month = 9 charts
29 charts

Average number days reported = 29

On a 30-day month:

6 groups will contain 4 charts for the month = 24 charts
2 groups will contain 3 charts for the month = 6 charts
30 charts

Average number days reported = 30

On a 31-day month:

7 groups will contain 4 charts for the month = 28 charts
1 group will contain 3 charts for the month = 3 charts
31 charts

Average number days reported = 31

Since the average number of days reported for any month are exactly equal to the days in such month, then it follows that for any period greater than one month the average number of days reported will exactly equal the number of days in the period.

All of the above discussion on the proposed El Paso procedures disregards the effect of the first month that the system is put into operation.