

DRAINAGE AREA CALCULATION

MEDIAN RATE IS 100 MCFD

- 1 FA WELL PRODUCES THAT FOR 5 YEARS FLAT
AND THEN DECLINES AT 5% PER YEAR
TO AN ECONOMIC LIMIT OF 25 MCFD,

$$EUR = 100(5)(365) + \frac{100-25}{-\ln(0.95)}(365) =$$

$$= 182.5 + 533.7 = \underline{716.2} \text{ MMCF OVER 32 YRS TOTAL}$$

WITH 2.17 BCF RECOVERABLE PER 320,

$$\text{DRAINAGE AREA} = \frac{716}{2170} \times 320 = \underline{106} \text{ AC}$$

IF $D = 10\%/YR$,

$$EUR = 182.5 + 259.8 = \underline{442.3} \text{ MMCF OVER } \underline{18.4 \text{ YRS}}$$

$$\underline{A_D} = \underline{65 \text{ AC}}$$

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 12734 Exhibit No. C14
Submitted By:
Richardson Operating Company
Hearing Date: November 13, 2001

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