

G10359-1

RRGE-2 TO RRGE-6

SUSTAINED 21 DAY TEST

RRGE-3 RESPONSE

May 23 '78 RRGE3 pump out

Aug 79

pump set at 802' in RRGE-2

1. did RRGE-2 begin steam flow

1.4 psi pre test fluctuations

FET-2-79

WELL RIGGE-3 RESPONSE

$$S = \frac{Tuf}{26931^2}$$

$$t = \frac{26931^2 S}{T_u} = \frac{2.7 \times 10^3 \times 5.3 \times 10^7 \times 10^{-4}}{4 \times 10^3 \times 10^{-2}}$$

$$t = 3.58 \times 10^5 = 358,000$$

assume $T = 11,000$
 $S = 1 \times 10^{-5}$

$$\frac{2.7 \times 10^3 \times 5.3 \times 10^7 \times 10^{-5}}{1.1 \times 10^2} = \frac{14.3 \times 10^5}{1.1 \times 10^2}$$

$$= 13.01 \times 10^3$$

$$13,000 \text{ min}$$

$$= 9 \text{ days}$$

Pressure evidently responded to the test. In the seven-day period prior to testing, wellhead pressure in RRGE-3 showed a trend of ^{gradually} increase at an average rate of 0.07 psia/day. See figure (x)

During the eleven-hour initial test attempt on March 19th, wellhead pressure at RRGE-3 declined by approximately 3 psia.

During the twelve-hour recovery period following the initial test attempt wellhead pressure at RRGE-3 continued to decline, reaching a maximum drop of 4.8 psia.

During the succeeding 21 days of the sustained test, wellhead pressure at RRGE-3 declined at a diminishing rate, reaching a maximum drop of 13.18 psia.

In the 21 day period following the end of the sustained test, wellhead pressure at RRGE-3 increased by approximately 1.27 psia.

The wellhead pressure fluctuations evidently represent response to the test, either by interference drawdown from RRGE-2 or injection into RRGE-6. RRGE-3 is 7300 ft from RRGE-2. The response