

LOCATION MAP

Raft River, Idaho

RR6E-1 near center of production wells yielding

high quality water. ~ 950 gpm - 500HP pump @
980 ft

$\sim 45\%$ of power plant demand supplied

G7L07291

WELL CONSTRUCTION

13 ³/₈" CSG TO 3623'

OPEN BOREHOLE TO T.D. (4989')

PRODUCTION FROM SEDIMENTS AND BEDROCK

DATA ANALYSIS

READ

TABLE 1

WELL TESTS

- MAIN DATA 298 GPM 02/03/83

- ALSO 10/20/81

10/28/81

FIG 4

4 ~~ONE~~ PRESS DEV. - 4^{DIFF} ANS OR NONE

RECHG (FAULT) BDRY ~ 10 MIN³

~~IS~~ ^{Q/A} h, ϕ ch, T, S - table 2 - early

POST BDRY

- ~~THE~~ WELLHEAD, FROZEN LINES, N₂

- Q/S

- CAL. HEISE WELLHEAD

FIG 25 - ~~ADP. Q.A.~~ W D

DW $Q/Q_0 = \text{~~26.7~~ 17.3$ early $\text{H}_{\text{rise}} 22.2$ ^{Tab 62}
BRV - 7.3 MIN PREU 10.8
 Q/Q_0 36.8 late - similar to HW

FIG BG RWQ

- ~~Q~~ RECH BD 2.31 MIN - EARLY TABLE 2

$Q/\Delta s = 15.2$ early - lower than DA

" = 42.0 late - higher " DD

~ 229.67 MIN - $Q \downarrow \therefore$ press \uparrow

FIG 7 RCW Q

- SAME BASIC DATA AS PREC. GRAPH
- CAL. REC. VS t'
- $Q/\Delta Q$ 14.5 early } SIMILAR TO PREC.
 $Q/\Delta Q$ 42.4 late }

CAL. VALUES - LOW \approx 4.6% error

Fig 8 - ALL RECOVERY

- BUBBLER POOR - UNUSEABLE

- Q/OO late similar - table 1

FIG 9 - TABLE 1

10/20/81

- Q \approx 1100 GPM FOR 805 MIN.

\approx 100 MIN FOR LIN. DATA PLOT

late time Q/ Δ = 20.4 - much lower than
for 298 gpm.

CAL. PRESS

TABLE 1

- WELLHEAD TEMP - 277.4°F

- Q

FIG 10

$$10/28/81 \quad Q = 1100 \text{ gpm.}$$

$$\text{late time } Q/\Delta Q = 20.8 \text{ gpm.}$$

- takes ~200 min for ΔQ to stabilize - $Q \propto$

FIG 11 - ~~PAGE 3~~ FIGURE 12

- PREDICT DD at 1000 min αQ
" " SLOPE " " αQ

Combine into eqn. ~~add = to 11~~ - FIG 12

~~Table - DD at 10, 100, 1000, 10000 min~~
~~Fig 6 - Plot~~

FIG 13 TABLE 4

ΔS vs Q

NON LINEAR ΔS vs Q

- POWER FN FITTED - MAY BE 2ND OR 3RD SEG.
- CAN ~~PREDICT~~ PREDICT ΔS as fn Q .

FIG 12

FIG 14 TABLE 4

$Q/\Delta Q$ vs Q .

IDEALLY SHOULD HAVE 0 SLOPE @ OR

BOUNDARY SLOPE

FIG 1015

SPEC. CAP AS FN Q, TIME

WELL LOSS AT 298 GPM NEGLIGABLE