



~~and RRUE-2 are assumed equal. The reservoir characteristics between RRUE-1, RRUE-3, RRUE-4 and RRUE-5 are~~

The ability of the reservoir to transmit water ~~between~~ between wells RRUE-1, RRUE-2 ~~and~~ RRUE-4 and RRUE-5 is assumed to be ~~33%~~ 33% higher than ~~the~~ the reservoir's ability to transmit water between ~~RRUE-1~~ RRUE-1 and the injection wells in the vicinity of RRUE-3. The reservoir temperature is assumed to be 290°F. Drawdown <sup>well loss</sup> due to head losses caused by ~~turbulent~~ turbulent flow in the well.

is not considered. ~~RRUE-1 and RRUE-2~~  
 Drawdown ~~caused~~ caused by the wells being open to different portions of the reservoir <sup>is</sup> assumed negligible. Interference drawdown, caused by the pumpage of wells RRUE-2, RRUE-4 and RRUE-5, <sup>is</sup> calculated by use of the Theis Nonequilibrium Formula, and reservoir characteristics based upon current data. Interference buildup, caused by the injection of 2500 gallons per minute (gpm) into wells <sup>in the vicinity</sup> in the vicinity of RRUE-3, RRUE-6 and RRUE-7, is estimated to be equal to that caused by pumpage at RRUE-4.

Table I shows the drawdown in wellhead pressure, acceptable for different pump bowl depths. It is assumed that 90 psi must be maintained above the pump bowls. The

columns on the table represent: ~~the~~ depth to pump bowls (Depth), initial wellhead pressure (WHP), total pressure above pump bowls (Pressure), exceptable drawdown after ~~the~~ five years of pumpage (Drawdown).

TABLE I

<u>Depth</u>	<u>WHP</u>	<u>Pressure</u>	<u>Drawdown</u>
650 FT.	160 psi	420 psi	330 psi
700 FT.	160 psi	440 psi	350 psi
750 FT.	160 psi	460 psi	370 psi
800 FT.	160 psi	480 psi	390 psi
850 FT.	160 psi	500 psi	410 psi

Table II ~~the~~ estimates <sup>the</sup> drawdown to be ~~the~~ expected at RRGE-1, for different pumping rates and reservoir conditions. The drawdown includes estimates of interference caused by ~~the~~ production and injection wells. Columns in the table represent: ~~drawdown~~ ~~the~~ production rate at RRGE-1 (Q), was ~~the~~ the effect of a boundary assumed in the analysis (Boundary), the drawdown at RRGE-1 to be expected after ~~the~~ five years of continuous pumpage (Drawdown), ~~drawdown~~ ~~the~~ production rate at RRGE-2 (RRGE-2), production rate

at ~~RRGP-4~~ RRG-4 (RRGP-4), and production rate at RRG-5 (RRGP-5).

TABLE II

<u>Q</u>	<u>Boundary</u>	<u>Drawdown</u>	<u>RRGE-2</u>	<u>RRGP-4</u>	<u>RRGP-5</u>
800 gpm	no	340 psi	400 gpm	650 gpm	650 gpm
800 gpm	yes	360 psi	400 gpm	650 gpm	650 gpm
1000 gpm	no	410 psi	400 gpm	550 gpm	550 gpm
1000 gpm	yes	440 psi	400 gpm	550 gpm	550 gpm

RRGE-1 currently appears capable of producing between 800 and 1000 gpm for ~~the next five years~~ five years and maintain 90 psi over the ~~the~~ pump bowls. This prediction of production capability is subject to change as the reservoir characteristics are further defined by ~~the~~ testing of RRG-4 and RRG-5. The prediction of RRG-1 productivity becomes more reliable as additional information is obtained.