BLINEBRY-DRINKARD SALT WATER DISPOSAL SYSTEM SWD Well No. H-35 Step Rate Test Attachment 1 DERIVATION OF FORMULA TO CONVERT BHP TO SP _____ SP = BHP@4000' - HHw@4000' + dPf - Pa SP = BHP@4000' - 1692Where: SP = Corrected Surface Pressure, psig BHP@4000' = Bottom Hole Pressure at 4000 feet, psia HHw@4000' = Hydrostatic Head of Water at 4000 feet, psi dPf = Frictional Pressure Loss, psi Pa = Atmospheric Pressure, 14.7 psi Hydrostatic Head of Water _____ $HHw@4000' = D \times SG$ HHw@4000' = 1828 psi Where: HHw@4000' = Hydrostatic Head of Water at 4000 feet, psi = Depth to Bottom Hole Pressure Guage, 4000 ft D = Pressure Gradient of Water, 0.457 psi/ft SG Frictional Losses (Using HAZEN-WILLIAMS Formula) 2.63 1.85 $dPf = L [Q / (0.442 \times d \times C)]$ dPf = 150.7 psiWhere: dPf = Frictional Pressure Loss, psi = Length of Pipe, 3981 ft L = Flow Rate, (159.4 bph x 42 gpb / 60 minph) = 111.6 gpm Q = Inside Diameter of Pipe, 2.42 in d

C = Flow Coefficient, 145